

PB85-910213  
PART 1 OF 2

U.S. DEPARTMENT OF THE INTERIOR

SELECTED  
WATER  
RESOURCES  
ABSTRACTS

ANNUAL CUMULATED INDEXES TO VOLUME 18, 1985



PART 1    AUTHOR  
          ORGANIZATION  
          ACCESSION NUMBER

GEOLOGICAL SURVEY

**S**ELECTED WATER RESOURCES ABSTRACTS (SWRA) is produced by the Geological Survey, U.S. Department of the Interior, and published monthly by the National Technical Information Service (NTIS), U.S. Department of Commerce.

SWRA is available to Federal agencies and their contractors or grantees in water resources research upon request, citing contract or grant number and sponsoring agency. Write: Water Resources Division, U.S. Geological Survey, MS 425, Reston, VA 22092. The **SWRA Journal** is also available on subscription from NTIS, 5285 Port Royal Road, Springfield, VA 22161. Annual subscription rates for the North American Continent are: Journal only, \$115, Journal and Annual Indexes, \$145; Indexes only, \$50. Other addressees, write for prices.

Some documents abstracted in this journal can be purchased from NTIS. Price codes are given in the entries and a current code-price conversion table is printed on the outside back cover. Other documents are available from originating organizations or authors as indicated in the citation.

**E R R A T A**

See page A-1: The first citation was incorrectly keyed. It should start with W-85 instead of W-84.



# **SELECTED WATER RESOURCES ABSTRACTS**

A monthly publication of the Geological Survey,  
U.S. Department of the Interior

**ANNUAL CUMULATED INDEXES TO VOLUME 18, 1985**

**PART 1**

**AUTHOR  
ORGANIZATION  
ACCESSION NUMBER**



The Secretary of the Interior has determined that the publication of the periodical is necessary in the transaction of the public business required by law of this Department.

**A**s the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

## PREFACE

**S**elected Water Resources Abstracts, a monthly journal, includes abstracts of current and earlier pertinent monographs, journal articles, reports, and other publication formats. These documents cover water resources as treated in the life, physical, and social sciences and the related engineering and legal aspects of the characteristics, supply condition, conservation, control, use, or management of water resources. Each abstract includes a full bibliographic citation and a set of descriptors which are listed in the **Water Resources Thesaurus**. The abstract entries are classified into 10 fields and 60 groups similar to the water resources research categories established by the Committee on Water Resources Research of the then Federal Council for Science and Technology.

**Selected Water Resources Abstracts** is designed to serve the scientific and technical information needs of scientists, engineers, and managers as one of

several services of the Water Resources Scientific Information Center. The cumulative SWRA file from 1968 and monthly updates are available also in magnetic tape through lease from NTIS.

THE WATER RESOURCES SCIENTIFIC INFORMATION CENTER DOES NOT PROVIDE COPIES OF DOCUMENTS ABSTRACTED IN THIS JOURNAL. Sufficient bibliographic information is given to enable readers to order the desired documents from local libraries or other sources.

Comments and suggestions concerning the contents and arrangement of this bulletin are welcome.

Water Resources Scientific  
Information Center  
U.S. Geological Survey  
MS 425 National Center  
Reston, VA 22092

## A NOTE ON THE INDEXES . . .

This cumulation is an index of AUTHORS, ORGANIZATIONS, AND ACCESSION NUMBERS appearing in the 1985 issue of SELECTED WATER RESOURCES ABSTRACTS. A table is provided below to facilitate the location of abstracts.

**Inclusive Abstract Numbers** will be found in **Issue Number and Date**

W85-00001--W85-00507	"	1	January 1985
W85-00508--W85-01117	"	2	February 1985
W85-01118--W85-01631	"	3	March 1985
W85-01632--W85-02171	"	4	April 1985
W85-02172--W85-02695	"	5	May 1985
W85-02696--W85-03217	"	6	June 1985
W85-03218--W85-03765	"	7	July 1985
W85-03766--W85-04408	"	8	August 1985
W85-04409--W85-04968	"	9	September 1985
W85-04969--W85-05847	"	10	October 1985
W85-05848--W85-06173	"	11	November 1985
W85-06174--W85-07164	"	12	December 1985

## AUTHOR INDEX

**AABERG, A.**  
Environmental Fate of a Dispersed Ekofisk Crude Oil in Sea-Immersed Plastic Columns, W85-02431 1805 5B

**AABERG, R. L.**  
Aquatic Pathways Model to Predict the Fate of Phenolic Compounds, W85-04222 1808 5B

**AADNESEN, A.**  
Hydrography, Nutrients, Suspended Organic Matter, and Primary Production in a Shallow Fjord System on the West Coast of Norway, W85-05713 1810 2L

**AAGAARD, K.**  
Effects of Rotenone Treatment on the Benthic Fauna of a Small Eutrophic Lake, W85-02653 1805 5C

**ABAYCHI, J. K.**  
Trace Metals in Shatt Al-Arab River, Iraq, W85-06733 1812 5B

**ABBASÉ, S. A.**  
Teratogenic Effects of Chromium (VI) in Environment as Evidenced by the Impact on Larvae of Amphibian *Rana tigrina*: Implications in the Environmental Management of Chromium, W85-04035 1808 5C

**ABBASI, S. A.**  
Toxicity of Lower than Permissible Levels of Chromium (VI) to the Freshwater Teleost *Nuria denicus*, W85-03043 1806 5C

**ABBOT, M. R.**  
Mixing and the Dynamics of the Deep Chlorophyll Maximum in Lake Tahoe, W85-02223 1805 2H

**ABBOTT, M. R.**  
Temperature and Transport Patterns in Lake Tahoe: Satellite Imagery, Field Data and a Dynamic Model, W85-02609 1805 2H

**ABD EL WAHAB, A. H.**  
Field Trial of Reverse Osmosis in the El Khanka Desert, Egypt, W85-03974 1808 3A

Field Trial of Reverse Osmosis in the El Khanka Desert, Egypt, W85-07093 1812 3A

**ABDEL-GAWAD, S. M.**  
Hydrodynamic of Circular Primary Clarifiers, W85-01716 1804 5D

**ABDEL-GHAFFAR, A. M.**  
Nonlinear Hysteretic Dynamic Response of Soil Systems, W85-07104 1812 8D

**ABDEL-MALEK, S. A.**  
Biological Productivity of Lake Qarun (Arab Republic of Egypt), W85-02851 1806 2H

**ABDEL-RAHMAN, M. S.**  
Metabolism and Pharmacokinetics of Alternate Drinking Water Disinfectants, W85-01200 1803 5F

Toxicological Effects of Chlorine Dioxide, Chlorite and Chlorate, W85-01199 1803 5F

**ABDRASILOV, S. A.**  
Role of Large-Scale Turbulence and Problems of Stability of Earth Canals, W85-01147 1803 8B

**ABDUL, A. S.**  
Laboratory Studies of the Effects of the Capillary Fringe on Streamflow Generation, W85-01342 1803 2E

**ABDUL-HAKIM, B. M. S.**  
Soil Structure Effects and Leaching of Sodium Following Sodium Chloride Fertiliser Applications, W85-06184 1812 2K

**ABDUL-JABBAR, A. S.**  
Field Study of Plant Resistance to Water Flow in Alfalfa, W85-03360 1807 2I

**ABE, H.**  
Simulation Study of Eutrophication in Hiroshima Bay, W85-06739 1812 2L

**ABE, T.**  
Inorganic Nutrients Occurring in the Oxygen-deficient Bottom Water of Osaka Bay, W85-04606 1809 2K

**ABEL, D. C.**  
Terrestriality in the Cyprinodont Fish *Rivulus marmoratus*: Potential Utility in H<sub>2</sub>S and Other Bioassays, W85-01089 1802 5A

**ABEL, T. H.**  
Effects of Cadmium on Aquatic Hyphomycetes, W85-02592 1805 5C

**ABERNATHY, A. R.**  
Overland Flow Wastewater Treatment at Easley, South Carolina, W85-07050 1812 5D

Removal of Metal Ions from Wastewater by Algae, W85-05426 1810 5D

Wastewater Treatment by Overland Flow, W85-05400 1810 5D

**ABERNATHY, J. R.**  
Modification of Cotton Water Relations and Growth with Mepiquat Chloride, W85-03357 1807 3F

**ABHYANKAR, V. P.**  
Markov Chain Model for the Probability of Drought Incidence in India, W85-05091 1810 2B

Some Climatological Aspects of Drought in India, W85-05086 1810 2B

**ABRAHAMS, A. D.**  
Development of Tributaries of Different Sizes Along Winding Streams and Valleys, W85-03984 1808 2E

Drainage Density in Relation to Precipitation Intensity in the U.S.A., W85-04285 1808 2A

Objective Identification of Pools and Riffles, W85-02159 1804 2E

Tributary Development along Winding Streams and Valleys, W85-02469 1805 2E

**ABRAHAMS, P. W.**  
Black Acidic Snow in the Remote Scottish Highlands, W85-03127 1806 5B

**ABRAHAMSEN, H.**  
Efficiency of Liming in Acid, Humus-Influenced Lakes, W85-04533 1809 5G

Use of Lime Slurry for Deacidification of Running Water, W85-05679 1810 5G

**ABRAHIM, G.**  
Sediment Deposits in Drainage Ditches: A Cropland Externality, W85-05965 1811 2J

**ABRAM, F. S.**  
Biodegradability of Two Primary Alcohol Ethoxylate Nonionic Surfactants Under Practical Conditions, and the Toxicity of the Biodegradation Products to Rainbow Trout, W85-04487 1809 5D

**ABRAMETS, A. M.**  
Change in the Hydrophysical Properties of Peat-Bog Soils after Application of Hydrolyzed Polyacrylonitrile, W85-06752 1812 3B

**ABRIOLA, L. M.**  
Calculation of Velocity in Three Space Dimensions from Hydraulic Head Measurements, W85-00306 1801 2F

Multiphase Approach to the Modeling of Porous Media Contamination by Organic Compounds; I. Equation Development, W85-04787 1809 5B

Multiphase Approach to the Modeling of Porous Media Contamination by Organic Compounds; 2. Numerical Simulation, W85-04788 1809 5B

**ABROSIMOV, V. G.**  
Estimation of the Fatigue Life of Lock-Gate Elements of the Moscow Canal, W85-01141 1803 8C

**ABSHER, J. D.**  
Relationship Between Commercial and Recreational Use of Navigation Locks on the Upper Mississippi River, W85-02985 1806 6D

**ABT, S. R.**  
Scour at Culvert Outlets in Multibed Materials, W85-06071 1811 2J

Unified Culvert Scour Determination, W85-03013 1806 8B

**ACRA, A.**  
Change in Quality of Thermal Groundwater From a Unique Resource in Lebanon, W85-01673 1804 2F

**ACREMAN, J. C.**  
Experimental Marine Ecosystem Response to Crude Oil and Corexit 9527: Part 2 - Biological Effects, W85-04875 1809 5C

**ACREMAN, M. C.**  
Predicting the Mean Annual Flood from Basin Characteristics in Scotland, W85-05902 1811 2E

**ACTON, A. B.**  
Increased Response of the Rainbow Trout Gonad Cell Unscheduled DNA Repair Assay, W85-05010 1810 5A

**ADAM, J. L.**  
Recovery of Protein from Slaughterhouse Effluents by Double Adjustment of pH, W85-05253 1810 5D

**ADAM, Y.**  
Simulation of Ecological Impacts of the New Outer-Harbour Development in Zeebrugge, W85-00565 1802 6G

**ADAMCZYK, A. F.**  
Hydrogeological Properties of the Zalas Porphyry Laccolith Near Krzeszowice (Wlasnosci Hydrogeologiczne Porfirow Lakkolitu Zalaskiego Kolo Krzeszowic), W85-05858 1811 2F

**ADAMOV, V. M.**  
Determination of Economically Feasible Parameters of Conduits of Hydroelectric Stations, W85-02233 1805 6B

## AUTHOR INDEX

**ADAMS, D. D.**

**ADAMS, D. D.**  
Chemical Study of the Interstitial Water Dissolved Organic Matter and Gases in Lake Erie, Cleveland Harbor, and Hamilton Harbour Bottom Sediments—Composition and Fluxes to Overlying Waters,  
W85-01814 1804 5B

Flux of Reduced Chemical Constituents ( $\text{Fe}^{2+}$ ,  $\text{Mn}^{2+}$ ,  $\text{NH}_4^+$  and  $\text{CH}_4$ ) and Sediment Oxygen Demand in Lake Erie,  
W85-02087 1804 2H

**ADAMS, E. E.**  
Field Measurements on Side Arms of Lake Anna, VA.,  
W85-00729 1802 8B

**ADAMS, F. C.**  
Determination of Ionic Alkyllead Compounds in Water by Gas Chromatography/Atomic Absorption Spectrometry,  
W85-03732 1807 5A

**ADAMS, J. C.**  
Effect of Some Coal Gasification and Tar Sand Process Waters on the Viability of Indicator Bacteria of Fecal Contamination,  
W85-06725 1812 5C

**ADAMS, J. R.**  
Accelerated Implementation Program for Reducing the Diffuse-Source Phosphorus Load to Lake Erie,  
W85-03964 1811 5G

**ADAMS, M. S.**  
Phytoplankton as a Factor in the Decline of the Submerged Macrophyte *Myriophyllum spicatum* L. in Lake Wingra, Wisconsin, U.S.A.,  
W85-00999 1802 2H

**ADAMS, N.**  
Toxicity of Eight Water-Soluble Organic Chemicals to *Scenastrum capricornutum*: A Study of Methods of Calculating Toxic Values Using Different Growth Parameters,  
W85-07159 1812 5A

**ADAMS, T. MCM.**  
Effect of pH on the Uptake of Zinc, Copper and Nickel from Chloride Solutions by an Uncontaminated Sewage Sludge,  
W85-05977 1811 5D

Effects of pH on the Release to Solution of Zinc, Copper and Nickel from Metal-Loaded Sewage Sludges,  
W85-02742 1806 5B

**ADAMS, V. D.**  
Consequences of Oil Pollution on the Decomposition of Vascular Plant Litter in Freshwater Lakes: Part 2- Nutrient Exchange between Litter and the Environment,  
W85-00681 1802 5C

Responses of Model Freshwater Ecosystems to Crude Oil,  
W85-06219 1812 5C

Statistical Comparison of a Direct Filtration and a Conventional Water Treatment Facility in the Intermountain Region,  
W85-06324 1812 5F

**ADAMS, W. N.**  
Human Pathogenic Viruses at Sewage Sludge Disposal Sites in the Middle Atlantic Region,  
W85-02939 1806 5B

**ADAMS, W. P.**  
Illustration of the Spatial Variability of Light Entering a Lake Using an Empirical Model,  
W85-01017 1802 2H

**ADAMSKI, W.**  
Adsorption in Wastewater Treatment,  
W85-01582 1803 5D

**ADDIS, M. C.**

Environmental Impact of an Open-cast Operation in the Forest of Dean, England,  
W85-03824 1808 4C

**ADEJUWON, J. O.**  
Runoff Response to Basin Parameters in Southwestern Nigeria,  
W85-01169 1803 2E

**ADEMOROTI, C. M. A.**  
Short Term BOD Tests,  
W85-03728 1807 5A

**ADIGUZEL, R. I.**  
Descriptive Decision Process Model for Hierarchical Management of Interconnected Reservoir Systems,  
W85-02147 1804 4A

**ADIN, A.**  
Contact Flocculation-Filtration of Humic Substances,  
W85-01722 1804 5D

**ADLER, R. F.**  
Rain Estimation from Satellites: An Examination of the Griffith-Woodley Technique,  
W85-01041 1802 2B

**ADLERSBERG, V. S.**  
Experimental Investigations of the Work of Foundation Elements of Hydraulic Structures,  
W85-05821 1810 8A

**ADMIRAAL, W.**  
Ecology of Meiofauna in an Organically Polluted Estuarine Mudflat,  
W85-04676 1809 2L

**ADOLPHSON, D. G.**  
Hydrogeologic and Water-Quality Characteristics of the Ironon-Galesville Aquifer, Southeast Minnesota,  
W85-00028 1801 4B

**ADSHEAD, J. D.**  
Hudson Bay River Sediments and Regional Glaciation: I. Iron and Carbonate Dispersal Trains Southwest of Hudson and James Bay,  
W85-00145 1801 2J

Hudson Bay River Sediments and Regional Glaciation: II. Comparison of Carbonate Mineralogy of Size Fractions for Ice Movement Inference,  
W85-00146 1801 2J

**AGA, J. A.**  
Fuller's Earth and Fired Clay as Adsorbents for Dyes/tuffs; Equilibrium and Rate Studies,  
W85-05701 1810 5D

**AGAFONOV, O. A.**  
Stiromal, a New Effective Soil Structuring and Hydrophobizing Agent,  
W85-06753 1812 3B

**AGAMI, M.**  
Effects of Water Pollution on Plant Species Composition along the Amal River, Israel,  
W85-02239 1805 5C

**AGASSI, M.**  
Effect of Raindrop Impact Energy and Water Salinity on Infiltration Rates of Sodic Soils,  
W85-05188 1810 2G

**AGGETT, J.**  
Detailed Model for the Mobility of Arsenic in Lacustrine Sediments Based on Measurements in Lake Ohakuri,  
W85-05117 1810 5B

**AGHA, F. Y. R.**  
Appropriate Technology to Improve Drinking Water Quality,  
W85-02014 1804 5F

**AGNEW, M. P.**

Anomalies in the High-Performance Liquid Chromatographic Determination of Diquat in Water Samples,  
W85-03405 1807 5A

**AGRAWAL, V. P.**  
Alachlor Toxicity to a Freshwater Teleost Clarias batrachus,  
W85-04885 1809 5C

**AGUERO, G.**  
Limnological Study of Lake Ranco (Chile); Morphometry, Physics, Chemistry and Plankton,  
W85-00108 1801 2H

**AGUILAR, A.**  
Relationship of DDE/sigma DDT in Marine Mammals to the Chronology of DDT Input into the Ecosystem,  
W85-01487 1803 5B

**AGUIRRE, E. J.**  
Bed Load or Suspended Load,  
W85-04397 1808 2J

**AHAMMAD SAHIB, I. K.**  
Combined Action of Carbaryl and Phenthaoate on Tissue Lipid Derivatives of Murrel, Channa punctatus (Bloch),  
W85-05813 1810 5C

**AHDY, H. H.**  
Status of Nutrients in Lake Mariut, a Delta Lake in Egypt Suffering from Intensive Pollution,  
W85-03241 1807 5B

**AHERNE, G. W.**  
Role of Immunoassay in the Analysis of Micro-contaminants in Water Samples,  
W85-05811 1810 5A

**AHLER, R. C.**  
Microbial Responses to Organic Species in Industrial Landfill Leachate,  
W85-05424 1810 5D

**AHLERT, R. C.**  
Anaerobic Treatment of Concentrated Industrial Wastewater,  
W85-04877 1809 5D

In-Situ and On-Site Biodegradation of Industrial Landfill Leachate,  
W85-02769 1806 5D

Numerical Estuarine Flow Model,  
W85-04987 1810 2L

Numerical Model of Pollution Transport in Estuaries,  
W85-04988 1810 5B

Rapid Aerobic Biostabilization of High-Strength Industrial Landfill Leachate,  
W85-03870 1808 5D

Relationships between the Pollutants in the Sediments and in the Water of the Delaware and Raritan Canal,  
W85-01413 1803 5B

Ultrafiltration Processes for the Characterization and Separation of Landfill Leachates,  
W85-04985 1810 5A

**AHMAD, A.**  
Acute Toxicity of Chrome Electroplating Wastes to Microorganisms: Adsorption of Chromate and Chromium (VI) on a Mixture of Clay and Sand,  
W85-02921 1806 5C

**AHMAD, M. U.**  
Quantitative Model to Predict a Safe Yield for Well Fields in Kufra and Sarir Basins, Libya,  
W85-00358 1801 6B

## AUTHOR INDEX

AL-RAWI, E. H.

**AHMAD, S.**  
Appropriate Technology to Improve Drinking Water Quality,  
W85-02014 1804 5F

**AHMED, S.**  
Conjunctive Utilization of Surface Water and Groundwater to Arrest the Water-Level Decline in an Alluvial Aquifer,  
W85-06053 1811 4B

Mathematical Model for Reservoir Sedimentation Planning,  
W85-04785 1809 6A

**AHMED, T. N. T.**  
Polyaluminum Chloride and Alum Coagulation of Clay-Fulvic Acid Suspensions,  
W85-06588 1812 5F

**AHO, J.**  
Testing the Benthic Lake Type Concept Based on Chironomid Associations in Some Finnish Lakes Using Multivariate Statistical Methods,  
W85-04069 1808 2H

**AHO, M.**  
Occurrence of Faecal Coliforms, Faecal Streptococci and Salmonella in the Waste Water of Three Abattoirs in Finland 1980-1983,  
W85-03681 1807 5A

**AHRENS, V. D.**  
Identification of Asbestos and Glass Fibers in Municipal Sewage Sludges,  
W85-05008 1810 5A

Toxicologic Studies Associated with the Agricultural Use of Municipal Sewage Sludge and Health Effects among Sewage Treatment Plant Workers,  
W85-04776 1809 5E

**AHSANULLAH, M.**  
Accumulation of Cadmium from Contaminated Water and Sediment by the Shrimp *Callianassa australiensis*,  
W85-02538 1805 5C

Toxicity of Copper to the Marine Amphipod *Allorchestes compressa* in the Presence of Water- and Lipid-Soluble Ligands,  
W85-03841 1808 5C

**AHUJA, L. R.**  
Interflow of Water and Tracer Chemical on Sloping Field Plots with Exposed Seepage Faces,  
W85-06050 1811 5B

Macroporosity to Characterize Spatial Variability of Hydraulic Conductivity and Effects of Land Management,  
W85-02317 1805 2G

Scaling Soil Water Properties and Infiltration Modeling,  
W85-02867 1806 2G

**AIBULATOV, N. A.**  
Anthropogenic Factor in the Development of the Coastal Zone of the Baltic Sea,  
W85-04111 1808 6G

**AIETA, E. M.**  
Chemical Indicators and Surrogate Parameters in Water Treatment,  
W85-03623 1807 5F

**AIKEN, D. J.**  
Evaluation of Legal and Institutional Arrangements Associated with Ground Water Allocation in the Missouri River Basin States,  
W85-06300 1812 6E

**AIKMAN, D. I.**  
Treatment of Ferruginous Ground Water from an Abandoned Colliery,  
W85-04596 1809 5D

**AIM, R. B.**  
Optimization of Sand Recycle Rate in Mobile Bed Filtration,  
W85-04663 1809 5F

**AINA, P. O.**  
Water Use-Yield Relations for Cowpea and Maize,  
W85-06281 1812 3F

**AIREY, D.**  
Method of Determining and Removing Sulphide to Allow the Determinations of Sulphate, Phosphate, Nitrite and Ammonia by Conventional Methods in Small Volumes of Anoxic Waters,  
W85-06163 1811 5A

**AIREY, P. L.**  
Evaluation of Tracer Dilution Techniques for Gauging of Rivers in Flood,  
W85-03085 1806 2E

**AISLAMIE, J.**  
Effect of Effluent High in Chromium on Marine Sediment Aerobic Heterotrophic Bacteria,  
W85-04869 1809 5C

**AIVASIDIS, A.**  
Anaerobic Treatment of Sulfite Evaporator Condensate in a Fixed Bed Loop Reactor,  
W85-07014 1812 5D

**AIVAZIAN, O. M.**  
Tranquill and Rapid Flows in Smooth-Walled and Reinforced-Concrete Flume Channels,  
W85-06597 1812 8B

**AJAYI, O.**  
Land Use, Runoff and Recharge on Selected Watersheds in the U.S. Virgin Islands,  
W85-01799 1804 4C

Water Resources Appraisal of the College of the Virgin Islands Area, St. Thomas,  
W85-00066 1801 6B

**AJMAL, M.**  
Acute Toxicity of Chrome Electroplating Wastes to Microorganisms: Adsorption of Chromate and Chromium (VI) on a Mixture of Clay and Sand,  
W85-02921 1806 5C

Effect of Water Hardness on the Toxicity of Cadmium to Micro-Organisms,  
W85-04295 1808 5C

Effects of a Textile Factory Effluent on Soil and Crop Plants,  
W85-04945 1809 5D

Pollution in the Ganges River, India,  
W85-01411 1803 5B

**AKAD, M. O.**  
Chemical Coagulation of Tar Sand Processing Wastewater,  
W85-05399 1810 5D

**AKAN, A. O.**  
Simulation of Runoff from Snow-Covered Hillslopes,  
W85-01344 1803 2E

**AKBAR, A. M.**  
Removal of Fine Oily Hazes from Wastewater Using Deep Fibrous Bed Coalescer,  
W85-01160 1803 5D

**AKBAR, H.**  
Cracking in Reinforced Concrete Analysis,  
W85-02273 1805 8F

**AKBASOVA, A. D.**  
Stiromal, a New Effective Soil Structuring and Hydrophobizing Agent,  
W85-06753 1812 3B

**AKHMEDOV, A. M.**  
Influence of Mercury Accumulation on Fish,  
W85-02849 1806 5C

**AKHMEDOVA, T. P.**  
Influence of Mercury Accumulation on Fish,  
W85-02849 1806 5C

**AKIELASZEK, J.**  
Regional Survey of Chemistry of Headwater Lakes and Streams in New England: Vulnerability to Acidification,  
W85-05312 1810 2H

**AKIELASZEK, J. J.**  
Errors in pH Measurement with Colorimetric Indicators in Low Alkalinity Waters,  
W85-00992 1802 5A

**AKIN, E. W.**  
Waterborne Outbreak Control: Which Disinfectant,  
W85-01198 1803 5F

**AKINLUVI, T. O.**  
Human Waste Disposal and the Faecal Pollution of the River Niger Delta Waters,  
W85-03703 1807 5D

**AKIVIS, T. M.**  
Equation of Sediment Discharge of a Slump Turbidity Current in a Deformable Channel,  
W85-05146 1810 2J

**AKIYAMA, T.**  
Biological Wastewater Treatment in a Fluidized Bed Reactor,  
W85-07110 1812 5D

**AKYLAS, T. R.**  
Excitation of Long Nonlinear Water Waves by a Moving Pressure Distribution,  
W85-00716 1802 8B

**AL-BASSOUYI, M.**  
Residue Levels of Organochlorine Insecticides in Sewage Plant Effluent,  
W85-06875 1812 5B

**AL-GOLAIKAH, A. M.**  
Desalination by the Saline Water Conversion Corporation of Saudi Arabia,  
W85-06691 1812 3A

**AL, J.**  
Shore Protection - A Tension Field Between Two Types of Conservation,  
W85-00562 1802 8A

**AL-JAFERY, A. R.**  
Age and Growth of *Barbus grypus Heckel* from a Polluted River,  
W85-01451 1803 5C

**AL-JEBOURI, M. M.**  
Indicator Bacteria in Freshwater and Marine Molluscs,  
W85-00416 1801 5A

Note on Antibiotic Resistance in the Bacterial Flora of Raw Sewage and Sewage-Polluted River Tigris in Mosul, Iraq,  
W85-07087 1812 5C

**AL-OGAILEY, N. H.**  
Residue Levels of Organochlorine Insecticides in Sewage Plant Effluent,  
W85-06875 1812 5B

**AL-OMAR, M. A.**  
Residue Levels of Organochlorine Insecticides in Sewage Plant Effluent,  
W85-06875 1812 5B

**AL-QUNABET, M. H.**  
Municipal Demand for Water in Kuwait: Methodological Issues and Empirical Results,  
W85-06497 1812 6D

**AL-RAWI, E. H.**  
Growth and Heavy Metal Removal by Klebsiella aerogenes at Different pH and Temperature,  
W85-01439 1803 6A

**AUTHOR INDEX**

**AL-RUWAIH, F.**

**AL-RUWAIH, F.**  
Ground-Water Chemistry of Dibdiba Formation, North Kuwait, W85-01528 1803 2K

**AL-SAAD, H. T.**  
Seasonal Variations of Oil Residues in Water of Shatt al-Arab River, Iraq, W85-05696 1810 5B

**AL-SABOONCHI, A. A.**  
Diatoms of the Shatt Al-Arab River, Iraq, W85-05724 1810 2H

**AL-SABTI, K.**  
Chromosomal Aberrations in Onion (*Allium cepa*) Induced by Water Chlorination By-Products, W85-04348 1808 5C

**AL-SALIHI, S. B. S.**  
Seawage-Derived Bacteria Monitored in a Marine Water Column by Means of Captive Mussels, W85-04868 1809 5A

**AL-SHAHWANI, M. F.**  
Growth and Heavy Metal Removal by *Klebsiella aerogenes* at Different pH and Temperature, W85-01439 1803 6A

**ALTERMAN, D. Z.**  
Experience in the Operation of Hydraulic Structures and Equipment of Hydroelectric Stations, W85-04423 1809 8C

**ALAO, D. A.**  
Locating Contaminants in a Ground-Water System by Direct Current Resistivity Technique, W85-06015 1811 5A

**ALASARELA, E.**  
Acidity Problems Caused by Flood Control Works of the River Kyronjoki, W85-05060 1810 5B

**ALKALINITY AND CHEMICAL OXYGEN DEMAND IN SOME FINNISH RIVERS DURING THE PERIODS 1911-1931 AND 1962-1979,** W85-06291 1812 5B

**PRIMARY PRODUCTION OF PHYTOPLANKTON IN THE OLIGOHUMIC KITKA LAKES IN NORTHERN FINLAND,** W85-03680 1807 2H

**ALBERT, W.**  
Sediment Transport Measurements of Two Northern German Creeks (Messungen des Feststofftransports von zwei Norddeutschen Bächen), W85-03448 1807 2J

**ALBERTIN, W.**  
Controlling Erosion and Sedimentation in the Panama Canal Watershed, W85-04442 1809 4D

**ALBERTS, E. E.**  
Dissolved Nitrogen and Phosphorus in Runoff from Watersheds in Conservation and Conventional Tillage, W85-05968 1811 5B

**ELectronic Discriminator to Eliminate the Problem of Horizontal Raindrop Drift,** W85-05193 1810 7B

**Estimating Labile and Dissolved Inorganic Phosphate Concentrations in Surface Runoff,** W85-03860 1808 5B

**ALBERTS, J. J.**  
Adsorption of Curium-244: Effects of Dissolved Organics and Sediment Extraction, W85-03857 1808 5B

**Distribution of Dissolved Organic Carbon and Metal-Binding Capacity Among Ultrafiltrable**

Fractions Isolated from Selected Surface Waters of the Southeastern United States, W85-03979 1808 2K

**ALBERTSON, M. L.**  
Historical Overview of Cross-Flow Turbine, W85-03328 1807 8C

**ALBIGNAT, J. P.**  
Impact of Hydraulic Works on Water Quality, W85-06132 1811 6G

**ALBIN, G. W.**  
Removal of Organics from Water in an Aeration Basin: A Mathematical Model, W85-06229 1812 5F

**ALBRECHT, D. R.**  
Cadmium Balance and Restoration Strategy for a River Basin, W85-01409 1803 5D

**ALBRECHT, S. L.**  
Drought and Flooding Effects on N<sub>2</sub> Fixation, Water Relations, and Diffusive Resistance of Soybean, W85-03359 1807 2I

**ALCAIDE, E.**  
Comparative Study on *Salmonella* Isolation from Sewage-Contaminated Natural Waters, W85-01150 1803 5A

R-Plasmid Transfer in *Salmonella* spp. Isolated from Wastewater and Sewage-Contaminated Surface Waters, W85-02604 1805 5B

**ALEKHINA, V. I.**  
Use of Uranium-Series Isotopes for Studying Thermal Waters of the Frunze Region, W85-05150 1810 2F

**ALEKSANDROVSKAYA, E. K.**  
Current State and Problems of Improving Operational Monitoring of the Safety of Hydraulic Structures, W85-06707 1812 8A

**ALEKSEEV, V. A.**  
Basic of Bioindication of Surface Water Quality at the Organic Level, W85-05157 1810 5A

**Modeling of CO<sub>2</sub> Dynamics in a Body of Freshwater,** W85-05159 1810 2H

**ALEKSEEV, V. V.**  
Physical Model of the Aquatic Ecosystem, W85-04850 1809 2H

**ALEKSEJEW, W. W.**  
Kinetics of Iron Oxidation During Groundwater Filtration in the Groundwater Conductor (Zur Kinetik der Oxydation von Eisen bei der Filtration von Grundwasser im Grundwasserleiter), W85-03533 1807 5F

**ALEXANDER, J. W.**  
New Port of Sapele, Nigeria, W85-02948 1806 8A

**ALEXANDER, L. S.**  
Controls on Contaminant Migration at the Villa Farm Lagoons, W85-03770 1808 5D

**ALEXANDER, M.**  
Biodegradation of Organic Chemicals, W85-04797 1809 5B

**Cometabolism of Low Concentrations of Propachlor, Alachlor, and Cycloate in Sewage and Lake Water,** W85-06138 1811 5B

**Effect of Simulated Acid Precipitation on Nitrogen Mineralization and Nitrification in Forest Soils,** W85-02956 1806 5C

**Effect of Simulated Acid Rain on Mycorrhizal Infection of *Pinus strobus* L.,** W85-06890 1812 5C

**Effect of Substrate Concentration and Organic and Inorganic Compounds on the Occurrence and Rate of Mineralization and Cometabolism,** W85-02132 1804 5B

**Effects of Simulated Acid Precipitation on Decomposition and Leaching of Organic Carbon in Forest Soils,** W85-03095 1806 5C

**Role of Resistance to Starvation in Bacterial Survival in Sewage and Lake Water,** W85-02600 1805 5B

**ALEXANDER, V.**  
Influence of Temperature and Light on Rates of Inorganic Nitrogen Transport by Algae in an Arctic Lake, W85-03000 1806 2H

**ALEXIS, L.**  
Damnation of Paradise, W85-06631 1812 6G

**ALEXY, M.**  
Lowering of the Water Level at Watertight Reinforcements (Wasserspiegelsenkung bei dichten Deckwerken), W85-03521 1807 8A

**ALFAFARA, J. F.**  
Detoxification/Toxicification of Cadmium in Scorpionfish (*Scorpaena guttata*): Acute Exposure, W85-00878 1802 5A

**ALFOLDI, T. T.**  
Use of Satellite Data for Monitoring Oil Spills in Canada, W85-05578 1810 7B

**ALFONSO, A.**  
Overlapping Piles Form Cutoff Wall at Thai Dam, W85-01543 1803 8A

**ALFRED, J. R. B.**  
Studies on Some Lotic Systems in the Northeastern Hill Regions of India, W85-00799 1802 2H

**ALHGREN, M.**  
Impact of Small-Scale Dams on Fishes of the Willamette River, Oregon and an Evaluation of Fish Habitat Models, W85-06321 1812 6G

**ALI, K. H. M.**  
Dispersion of Marked Fluid in Reservoirs, W85-04154 1808 2H

**ALI, M. F.**  
Estimating Nonpotential Evapotranspiration by Means of the Equilibrium Evaporation Concept, W85-05801 1810 2D

**ALI, M. T.**  
Fishes and Fisheries of Lake Nubia, Sudan, W85-01033 1802 2H

**ALI, O. M. M.**  
Faunistic Reconnaissance of Lakes Kundu and Keilak, Western Sudan, W85-01027 1802 2H

**ALISHOUSE, J. C.**  
Total Precipitable Water and Rainfall Determinations from the SEASAT Scanning Multichannel Microwave Radiometer, W85-00522 1802 7B

**ALLAM, M. N.**  
Irrigated Agricultural Expansion Planning in Developing Countries: Income Redistribution Objective, W85-02143 1804 3F

## AUTHOR INDEX

AMERMAN, C. R.

**IRRIGATED AGRICULTURAL EXPANSION PLANNING IN DEVELOPING COUNTRIES**

- Investment Scheduling Incorporating Drainage Water Reuse, 1804 3F  
W85-02142
- Irrigation Planning in Developing Countries: Resilient System Design, 1804 6A  
W85-02144

**ALLAN, J. W.**  
Influence of Acid Precipitation on Stream Invertebrates, 1804 5C  
W85-01807

**ALLAN, R.**  
Computer-Assisted Data Processing and Analysis System for Ground-Based Meteorological Data Collection, 1812 7C  
W85-06924

**ALLARD, A. S.**  
Tri- and Tetra-Chloroveratrole, Metabolites Produced by Bacterial O-Methylation of Tri- and Tetra-Chloroguaiacol: An Assessment of Their Bioconcentration Potential and Their Effects on Fish Reproduction, 1807 5C  
W85-03310

**ALLARD, L.**  
Four-Tank Recirculation System with a Hydrocyclone Prefilter and a Single Water Reconditioning Unit, 1807 5D  
W85-03637

**ALLARD, M.**  
Influence of Experimental Acidification in a Lotic Environment of the Benthic Invertebrate Drift (Influence d'une Acidification Experimentale en Milieu Lotique sur la Derive des Invertébrés Benthiques), 1810 5C  
W85-05660

**ALLEN, C. M.**  
Mathematical Models of Dispersion in Rivers and Estuaries, 1810 2E  
W85-05832

**ALLEN, D. A.**  
Demography and Flora of the Ouse Washes, England, 1801 2L  
W85-00116

**ALLEN, D. H.**  
Dispersion Modeling of Multiple Sources Using the HP-41CV, 1809 5B  
W85-04644

**ALLEN, D. J.**  
Use of Pumping Tests to Evaluate a Geothermal Reservoir - the Triassic Sandstones at Marchwood, Southampton, 1806 2F  
W85-02949

**ALLEN, H. E.**  
Kinetic Limitations on the Selective Precipitation Treatment of Electronics Wastes, 1810 5D  
W85-05698

**ALLEN, J. D.**  
Quantification of Stream Drift, 1809 2H  
W85-04842

**ALLEN, R. C.**  
Competition Versus Optimal Control in Groundwater Pumping when Demand is Nonlinear, 1804 4B  
W85-02141

**ALLEN, R. G.**  
Concepts for Energy-Efficient Irrigation System Design, 1803 8C  
W85-01504

**ALLEY, R. B.**  
Rheology of Glacier Ice, 1810 2C  
W85-05112

**ALLEY, W. M.**  
Palmer Drought Severity Index as a Measure of Hydrologic Drought, 1812 2B  
W85-06245

**Palmer Drought Severity Index: Limitations and Assumptions, 1808 2B  
W85-03848**

Treatment of Evapotranspiration, Soil Moisture Accounting, and Aquifer Recharge in Monthly Water Balance Models, 1805 2A  
W85-02370

Water Balance Models in One-Month-Ahead Streamflow Forecasting, 1812 2E  
W85-06514

**ALLISON, G. B.**  
Distribution of Deuterium and  $^{18}\text{O}$  in Dry Soils; 3. Theory for Non-Isothermal Water Movement, 1806 2G  
W85-03086

Recharge in Karst and Dune Elements of a Semi-Arid Landscape as Indicated by Natural Isotopes and Chloride, 1810 2F  
W85-05530

**ALLORD, G. J.**  
Application of Digital Mapping Technology to the Display of Hydrologic Information, a Proof-of-Concept Test in the Fox-Wolf River Basin, Wisconsin, 1802 7A  
W85-00586

**ALLSOP, K.**  
Assessment of *Bacteroides fragilis* Group Organisms as Indicators of Human Faecal Pollution, 1810 5B  
W85-05808

**ALMANZA, E.**  
Chlorophyll Differences in Mono Lake (California) Observable on Landsat Imagery, 1811 2H  
W85-06004

**ALMERO, R. A.**  
Design and Construction of the Agus IV Power Cavern, Part One: Geotechnical Investigations, 1803 8E  
W85-01544

**ALONSO, M.**  
Limnology of Gallocastra Lake, Aragon, Northeastern Spain, 1810 2H  
W85-05757

Preliminary Grouping of the Small Epicontinental Water Bodies in Spain and Distribution of Crustacea and Charophyta, 1810 2H  
W85-05653

**ALOUF, N. J.**  
Studies on Lebanese Streams: The Biological Zonation of the Nahr Qab Ilias (Contribution à la connaissance des cours d'eau du Liban: la zonation biologique du Nahr Qab Ilias), 1801 2H  
W85-00093

**ALPERIN, M. J.**  
Biochemistry of Acetate in Anoxic Sediments of Skan Bay, Alaska, 1806 2L  
W85-03207

**ALPERT, J. E.**  
Sludge Dewatering and Compost Economics, 1806 5E  
W85-02991

**ALSTON, K.**  
Process Design Manual, Land Treatment of Municipal Wastewater, 1810 5D  
W85-05194

**ALTAMEMI, A. R.**  
Adsorption of Various Pollutants from Aqueous Solutions on to Activated Carbon, 1812 5D  
W85-06736

**ALTARES, T.**  
Wastewater Treatment for a Small Chrome Plating Shop: A Case History, 1810 5D  
W85-05429

**ALATHER, G. R.**  
Bentonite Liners and Caps for Lagoons and Landfills, 1807 5G  
W85-03717

**ALTNODER, J.**  
Study of Waterworks in the Mannheim/Heidelberg Urban Area Using the Example of the Rheinau RHE Waterworks (Wasserwerksbetriebe im Ballungsraum Mannheim/Heidelberg am Beispiel des RHE-Wasserwerkes Rheinau), 1809 5F  
W85-04626

**ALTOBELLO, M.**  
Economic, Legal and Institutional Relations Involved in Diversion and Other Interbasin Transfers, 1812 6A  
W85-06304

Economic, Legal and Institutional Relations Involved in Diversion and Other Interbasin Transfers, 1812 6A  
W85-06307

**ALTUNIN, V. S.**  
Role of Large-Scale Turbulence and Problems of Stability of Earth Canals, 1803 8B  
W85-01147

**ALVAREZ-BORREGO, S.**  
Effects of Physical Phenomena on the Distribution of Nutrients and Phytoplankton Productivity in a Coastal Lagoon, 1802 2L  
W85-00652

**ALVAREZ, J. A.**  
Public Supply Water Use, Palm Beach County, Florida, 1978-82, 1808 6D  
W85-03916

**ALVES, L. F.**  
Vertical Distribution of Zooplankton and Physico-Chemical Conditions During a 24-hour Period in an Amazon Floodplain Lake - Lago Calado, Brazil, 1812 2H  
W85-06449

**ALY, O. A.**  
Organochlorine Residues in Fish from the River Nile, Egypt, 1803 5B  
W85-01458

Uptake and Accumulation of Selected Herbicides by the Freshwater Alga *Scenedesmus*, 1807 5C  
W85-03224

**AMANO, K.**  
Estimation of Acceptable Water Quality Conditions in the Tama River, Japan, 1803 5B  
W85-01403

**AMBASHT, R. S.**  
Soil, Water and Nutrient Conservation by Certain Riparian Herbs, 1803 2J  
W85-01156

**AMBE, M.**  
New Chemical Approach to the Study of Waters of Mt. Fuji Environs, 1802 2A  
W85-00760

**AMBEY, Y.**  
Chemical Characteristics of Several Inland Waters in Afghanistan, 1805 2K  
W85-02628

**AMBERG, H. R.**  
Sludge Dewatering and Disposal in the Pulp and Paper Industry, 1805 5E  
W85-02577

**AMBRUS, L.**  
New Electronic Evaporation and Rain Measuring Equipment, 1802 7B  
W85-01062

**AMEND, J. R.**  
Water Management Using Interactive Simulation, 1803 6A  
W85-01567

**AMERMAN, C. R.**  
Subsoil Characteristics Influence Hydrologic Response to No-Tillage, 1807 3F  
W85-03396

## AUTHOR INDEX

### AMIRTHARAJAH, A.

**AMIRTHARAJAH, A.**  
Interface Between Filtration and Backwashing, W85-07117 1812 5F  
Removing Color Caused by Humic Acids, W85-06585 1812 5F

**AMMAR, E. M.**  
Assessment of Maternal Toxicity, Embryotoxicity and Teratogenic Potential of Sodium Chlorite in Sprague-Dawley Rats, W85-01201 1803 5F

**AMOOZEGAR-FARD, A.**  
Design Nomographs for Trickle Irrigation Systems, W85-01505 1803 8A

**AMOR, H. B.**  
Mode of Action of Chlorine Dioxide on Organic Compounds in an Aqueous Medium; Chlorine Dioxide Consumption and Reactions on Phenolic Compounds (Mode d'Action du Dioxyde de Chlore sur les Composes Organiques en Milieu Aquueux; Consommations de Dioxyde de Chlore et Reactions sur les Composes Phenoliques), W85-04302 1808 5F

**AMOROS, C.**  
Structure and Function of Ecosystems of the French Haut-Rhone (Structure et fonctionnement des ecosystèmes du Haut-Rhone français), W85-01016 1802 2H

**AMSLER, M. L.**  
Limnological Studies in a Cross-Section of the Middle Reach of Parana River, II: Characteristics and Temporal Variations of Suspended Sediment Granulometry (Estudios Limnológicos en una Sección Transversal del Tramo Medio del Rio Parana, II: Características y Variaciones Temporales de la Granometría de los Sedimentos Suspensos), W85-05173 1810 2J

**AMUNDSON, R. G.**  
Effects of Low Concentrations of O<sub>3</sub>, Leaf Age and Water Stress on Leaf Diffusive Conductance and Water Use Efficiency in Soybean, W85-06105 1811 2I

**AMY, G. L.**  
Chlorine Utilization during Trihalomethane Formation in the Presence of Ammonia and Bromide, W85-02806 1806 5B  
Oxidation of a Corn-Milling Wastewater with Hydrogen Peroxide, W85-05563 1810 5D

**ANAGNOSTIDIS, K.**  
Limnological Survey of Three Greek Lakes: Trichonis, Lyssimachia and Amvrakia (Ein Limnologischer Überblick von drei Griechischen Seen: Trichonis, Lyssimachia und Amvrakia), W85-00771 1802 2H

**ANAND, C. S. K.**  
Effect of Some Molluscicides on the Rate of Survival and Oxygen Consumption of a Freshwater Leech, *Poecilobdella viridis* (Blanchard), W85-04376 1808 5C

**ANANTHAKRISHNAN, R.**  
Some Aspects of the Rainfall of Kerala and Adjoining Areas I. The Southwest Monsoon Rainfall of Cochin, W85-01466 1803 2B

**ANANTHARAJ, B.**  
Effect of Phenol on the Phosphomonoesterases and ATPase Activity in the Fish *Sarotherodon mossambicus* (Peters) in Saline Waters, W85-06425 1812 5C

**ANDELMAN, J. R.**  
Organic Water Quality and Other Factors in Poultry Plant Wastewater Renovation and Reuse, W85-00557 1802 5D

**ANDER, E.**  
Condition and Reconstruction of Dams (Zustand und Rekonstruktion von Talsperren), W85-03450 1807 8A

**ANDERBERG, K.**  
Acid Rain: Dousing Community Resources, W85-04750 1809 5F

**ANDERSEN, B. C.**  
Logging Impacts and Some Mechanisms that Determine the Size of Spring and Summer Populations of Coho Salmon Fry (*Oncorhynchus kisutch*) in Carnation Creek, British Columbia, W85-01919 1804 5C

**ANDERSEN, J. K.**  
Attempts to Alleviate Fish Losses from Allegheny Reservoir, Pennsylvania and New York, Using Acoustics, W85-02373 1805 5G

**ANDERSEN, R. A.**  
Diatom Flora of a Kettle-Hole Bog in Relation to Hydrarch Succession Zones, W85-01023 1802 2L

**ANDERSEN, S.**  
Acute Toxicity and Chemical Characteristics of Moderately Polluted Runoff from Highways, W85-00745 1802 5C

**ANDERSON, A.**  
Surge Shaft Stability with Pumped-Storage Schemes, W85-00725 1802 8A

**ANDERSON, B.**  
Leachability of Barium-Radium Sulfate Sludges, W85-05261 1810 5B

**ANDERSON, B. A.**  
Soil Erosion Study of Exposed Highway Construction Slopes and Roadways, W85-06069 1811 4D

**ANDERSON, B. C.**  
Aerobic Sludge Digestion with pH Control - Preliminary Investigation, W85-01660 1804 5D

**ANDERSON, D. C.**  
Effects of Increasing Snowpack on a Subalpine Meadow in the Uinta Mountains, Utah, U.S.A., W85-00236 1801 2C

**ANDERSON, D. E.**  
Consolidation of a Stream Quality Monitoring Network, W85-02973 1806 7A

**ANDERSON, D. S.**  
Methods of pH Calibration of Sedimentary Diatom Remains for Reconstructing History of pH in Lakes, W85-04725 1809 5C

**ANDERSON, E.**  
Oil Spill Fishery Impact Assessment Model: Sensitivity to Spill Location and Timing, W85-05688 1810 5C

**ANDERSON, F. E.**  
Dewatering of an Unvegetated Muddy Tidal Flat During Exposure - Desiccation or Drainage, W85-02996 1806 2L

**ANDERSON, G. A.**  
Biological Treatability Study of Wastewater from a Nylon Fibers and Plastics Facility, W85-05415 1810 5D

**ANDERSON, G. K.**  
Application of Anaerobic Packed-Bed Reactors to Industrial Wastewater Treatment, W85-05281 1810 5D

**ANDERSON, G. K.**  
Costs of Anaerobic Processes in the Pulp and Paper Industry, W85-07017 1812 5D

**Treatment of Cork-Stopper Manufacturing Wastes,** W85-05295 1810 5D

**ANDERSON, J.**  
Evaluating Dewatering Alternatives, W85-02992 1806 5E

**Evaluating Enclosed Composting Systems,** W85-02299 1805 5E

**ANDERSON, J. E.**  
Dissolved Oxygen Concentrations in Lake Erie (U.S.A.-Canada); I. Study of Spatial and Temporal Variability Using Cluster and Regression Analysis, W85-01609 1803 2H

**ANDERSON, J. J.**  
Carbon Treatment of Pesticide Wastewaters in Light of Best Available Technology Effluent Limitation Guidelines, W85-05267 1810 5D

**ANDERSON, K. J.**  
Effects of Pollution on the Benthos of the Firth of Forth, W85-00800 1802 5C

**Pollution Monitoring Using the Nematode/Copepod Ratio, A Practical Application,** W85-05860 1811 5C

**ANDERSON, M. G.**  
Stability of Non-Water-Stressed Baselines, W85-06198 1812 2D

**ANDERSON, M. P.**  
Investigation of Aldicarb in Ground Water in Selected Areas of the Central Sand Plain of Wisconsin, W85-00324 1801 5B

**ANDERSON, N. H.**  
Bacterial Activity Associated with the Decomposition of Woody Substrates in a Stream Sediment, W85-00105 1801 5B

**ANDERSON, R. B.**  
Impact of Recent Court Decisions Concerning Water and Interstate Commerce on Water Resources of the State of New Mexico, W85-04192 1808 6E

**ANDERSON, R. F.**  
New Method for Monitoring Temporal Trends in the Acidity of Fresh Waters, W85-07143 1812 5A

**ANDERSON, R. L.**  
Toxicity of Fenitrothion to Fathead Minnows (*Pimephales promelas*) and Alternative Exposure Duration Studies with Fenitrothion and Endosulfan, W85-02421 1805 5C

**Toxicity of Flucythrinate to *Gammarus lacustris* (Amphipoda), *Pteronarcys dorsata* (Plecoptera) and *Brachycentrus americanus* (Trichoptera): Importance of Exposure Duration,** W85-02750 1806 5C

**ANDERSON, R. S.**  
Present Techniques for 'In-Situ' Sewer Renovation, W85-04518 1809 8F

**ANDERSON, T. D.**  
Plant Nutrient Losses by Soil Erosion and Mass Movement after Wildfire, W85-05972 1811 2J

**ANDERSON, W. C.**  
Constant and Variable Operating-Angle Sprinklers for Traveler Irrigators, W85-03404 1807 3F

**ANDERSSON, P.**  
Fractionation of Trace Metals in Acidified Fresh Waters by *in situ* Dialysis, W85-04535 1809 5B

## AUTHOR INDEX

ARAGNO, M.

<b>ANDERSSON, P.-E.</b>				
Anaerobic Treatment of Wastewater from the Production of Chemi-Thermomechanical Pulp, W85-07007	1812	5D		
<b>ANDRE, P.</b>				
Effects of an <i>in situ</i> Artificial Acidification on the Lacustrine Phytoplankton and Zooplankton (Effets d'une Acidification Artificielle <i>in situ</i> sur le Phytoplancton et le Zooplancton Lacustre), W85-02636	1805	5C		
<b>ANDREEA, M. O.</b>				
Determination of Inorganic Tellurium Species in Natural Waters, W85-02831	1806	2K		
Geochemistry of Inorganic Germanium In Natural Waters, W85-04482	1809	2K		
<b>ANDREEV, V. N.</b>				
Experience in Studying Technogenic Unloading in Construction Pits, W85-06592	1812	8E		
<b>ANDREN, A. W.</b>				
Seasonal Variations of 210-Pb and 210-Po Concentrations in an Oligotrophic Lake, W85-03212	1806	2H		
<b>ANDRES, D. D.</b>				
Analysis of Breakup and Ice Jams on the Athabasca River at Fort McMurray, Alberta, W85-04043	1808	2C		
<b>ANDREWS, B. T.</b>				
Federalism and the Wild and Scenic Rivers Act: Now You See It, Now You Don't, W85-04375	1808	6E		
Groundwater and Intergovernmental Relations in the Southern San Joaquin Valley of California: What are All These Cooks Doing to the Broth, W85-02184	1805	4B		
<b>ANDREWS, C. W.</b>				
Aspects of the Ecology of the Fishes of Holyrood Pond: A Coastal Lake with Occasional Access to the Sea Located in St. Mary's Bay, Newfoundland, W85-02563	1805	2H		
<b>ANDREWS, E. D.</b>				
Bed-Material Entrainment and Hydraulic Geometry of Gravel-Bed Rivers in Colorado, W85-01133	1803	2E		
<b>ANDREWS, F. L.</b>				
Effects of Storm-Water Runoff on Water Quality of the Edwards Aquifer near Austin, Texas, W85-03914	1808	5B		
Water Quality of Lake Arlington on Village Creek, North-Central Texas, 1973 to 1981, W85-02042	1804	2H		
<b>ANDREWS, G.</b>				
Optimal Design of Fluidized Bed Bioreactors, W85-07043	1812	5D		
<b>ANDREWS, M. J.</b>				
Biological Considerations in the Setting of Quality Standards for the Tidal Thames, W85-04309	1809	5G		
<b>ANDREWS, R. W.</b>				
Sensitivity Analysis for Steady State Groundwater Flow Using Adjoint Operators, W85-05799	1810	2F		
<b>ANDRIANOV, A. V.</b>				
Stability of Slopes of Construction Cuts in Rubble Soils, W85-00482	1801	8D		
<b>ANDRUSHAITIS, A. G.</b>				
Method of Performing Ecotoxicological Experiments <i>In Situ</i> (Metodika Postanovki Ekotoksikologicheskogo Eksperimenta <i>In Situ</i> ), W85-06464	1812	2L		
<b>ANEJA, V. P.</b>				
Mass Transfer of NH <sub>3</sub> into Water at Environmental Concentrations, W85-04040	1808	2K		
<b>ANGEHRN, M.</b>				
Ultraviolet Disinfection of Water, W85-02020	1804	5D		
<b>ANGELBECK, D.</b>				
Design-Oriented Reverse Osmosis Model, W85-05293	1810	5D		
<b>ANGELKOVA, E. B.</b>				
Biological State of Underground Waters in the Industrial Zone of the Eastern Part of the Sofia Plain (Biologichio S'c'yanie na Podzemnite vodi v Industrialnata Zona na Utzchotno Z-fiziko Pole), W85-03103	1806	5B		
<b>ANGERMEIER, P. L.</b>				
Relationship Between Woody Debris and Fish Habitat in a Small Warmwater Stream, W85-04679	1809	2E		
<b>ANGLE, J. S.</b>				
Aflatoxin Movement in Soil, W85-06719	1812	5B		
Nutrient Losses in Runoff from Conventional and No-Till Corn Watersheds, W85-01290	1803	5B		
<b>ANGUS, D. E.</b>				
Evapotranspiration - How Good is the Bowen Ratio Method, W85-06672	1812	2D		
<b>ANIKANOV, A. M.</b>				
Intercomparisons of Analytical Methodology and Laboratory Capabilities Between Soviet and American Laboratories - 1973 and 1977, W85-02887	1806	5A		
<b>ANIL KUMAR, K. G.</b>				
Spatial Correlation of the Southwest Monsoon Rainfall Over the Southern Districts of Kerala, W85-01464	1803	2B		
<b>ANNEAR, T. C.</b>				
Relative Bias of Several Fisheries Instream Flow Methods, W85-03835	1808	2E		
<b>ANNONI, D.</b>				
Total Phosphorus Load to Lake Monate (Northern Italy, Varese) (Stima Del Carico Di Fosforo Totale Al Lago Di Monate (Provincia Di Varese, Italia Settentrionale)), W85-02501	1805	5B		
<b>ANPILOV, V. E.</b>				
Experience in Constructing Radial Wells in Fine Sands, W85-00447	1801	8D		
<b>ANSARI, Z. A.</b>				
Effect of Domestic Sewage on Sand Beach Meiofauna at Goa, India, W85-00423	1801	5C		
<b>ANSELL, C.</b>				
Use of Models for Water Resources Management, Planning, and Policy, W85-02146	1804	6A		
<b>ANSOULT, M.</b>				
Statistical Relationship Between Apparent Dielectric Constant and Water Content in Porous Media, W85-05184	1810	2G		
<b>ANTAL, E.</b>				
New Electronic Evaporation and Rain Measuring Equipment, W85-01062	1802	7B		
<b>ANTHES, R. A.</b>				
Enhancement of Convective Precipitation by Mesoscale Variations in Vegetative Covering in Semiarid Regions, W85-01541	1803	3B		
<b>ANTOINE, S. E.</b>				
Studies on the Bottom Sediments and Epipelic Algae of the River Ely, South Wales, U.K., W85-05611	1810	5C		
<b>ANTONOW, S. W.</b>				
Automation of the Measurement of Chlorides in Natural and Wastewaters (Die Automatisierung der Messung von Chloriden in Naturlichen Wassern und in Abwassern), W85-03534	1807	7B		
<b>ANTOSCH, L. M.</b>				
Surface Mine Lakes: An Important Water Resource for Iowa, W85-00812	1802	3B		
<b>ANWAR, H. O.</b>				
Experimental Study of the Structure of a Freshwater-Saltwater Interfacial Mixing (Etude Experimentale du Melange a l'interface Eau-Saumure), W85-00387	1801	2L		
<b>AO, M.</b>				
Studies on Some Lotic Systems in the Northeastern Hill Regions of India, W85-00799	1802	2H		
<b>AOKI, M.</b>				
Fate of 2,4,6-Trichlorophenol, Pentachlorophenol, p-Chlorobiphenyl, and Hexachlorobenzene in an Outdoor Experimental Pond: Comparison between Observations and Predictions Based on Laboratory Data, W85-03227	1807	5B		
<b>APAJALAHTI, J.</b>				
Fluidized Bed Technology in the Anaerobic Treatment of Forest Industry Wastewaters, W85-07006	1812	5D		
<b>APEL, M. L.</b>				
Leachability and Revegetation of Solid Waste from Mining, W85-06990	1812	5G		
<b>APPLEBY, P. G.</b>				
Combined Radiometric and Mineral Magnetic Approach to Recent Geochronology in Lakes Affected by Catchment Disturbance and Sediment Redistribution, W85-01100	1802	2J		
<b>APTE, S.</b>				
Behaviour of Dissolved Arsenic in the Estuary of the River Beaulieu, W85-03631	1807	5B		
<b>APTE, S. G.</b>				
Rainfall Over Lakes Around Bombay, W85-05094	1810	2B		
<b>ARA, K.</b>				
Biodegradation of Linear Alkylbenzene Sulfonates and Soap in River Water (in Japanese), W85-03508	1807	5B		
<b>ARAD, A.</b>				
Brackish Groundwater as an Alternative Source of Cooling Water for Nuclear Power Plants in Israel, W85-04599	1809	4B		
Hydrogeochemistry of Continental Brackish Waters in the Southern Coastal Plain, Israel, W85-01095	1802	2K		
<b>ARAGNO, M.</b>				
Production and Consumption of Carbon Monoxide in a Eutrophic Lake, W85-01585	1803	2H		

## AUTHOR INDEX

**ARAGNO, M.**

Production and Consumption of Hydrogen in a Eutrophic Lake, W85-00104	1801 2H	Biological Fouling of Reverse Osmosis Membranes, W85-01977	1804 5D	<b>ARMSTRONG, D. E.</b>
<b>ARAI, T.</b> Measurement of Vertical Movement of Lake Water, W85-02608	1805 2H	Water Reuse: Where Are We Headed, W85-05116	1810 5D	Ground Water as a Silica Source for Diatom Production in a Precipitation-Dominated Lake, W85-05775
<b>ARAPIS, G.</b> Behavior of Tritium in the Marine Environment: Uptake and Distribution of Tritiated Water and of Tritiated Organic Compounds in Unicellular and Multicellular Algae, W85-03501	1807 5B	<b>ARGO, D. R.</b> Use of Lime Clarification and Reverse Osmosis in Water Reclamation, W85-04287	1808 5D	1810 2H
<b>ARBAB-ZAVAR, M. H.</b> Behaviour of Dissolved Arsenic in the Estuary of the River Beaulieu, W85-03631	1807 5B	<b>ARIHOOD, L. D.</b> Ground-Water Resources of the White River Basin, Randolph County, Indiana, W85-03902	1808 2F	<b>ARMSTRONG, J. L.</b> Association of Metal Tolerance with Multiple Antibiotic Resistance of Bacteria Isolated from Drinking Water, W85-02133
<b>ARBOUR, R. C.</b> Synopsis of Insulation Problems at Yellowtail Powerplant, W85-06893	1812 8C	<b>ARIPOV, N. F.</b> Evaluation of the Engineering-Geological Properties of Clay Foundations of Earth Dams, W85-06594	1812 8D	1804 5F
<b>ARCHIER, P. B. R.</b> Variability in Phosphorus Concentrations in North Temperate Lakes: A Case Study of Anthropogenic Forcing, W85-02652	1805 5C	Study of the Seepage and Piping Stability of Dolomite Soil and Evaluation of its Suitability for a Dam Core on a Rock Foundation, W85-03579	1807 8D	<b>ARMSTRONG, R.</b> Suction Side Sample Catcher in Ground Water Quality Sampling, W85-03174
<b>ARCHHEY, W. E.</b> Municipal Watershed Management - A Unique Opportunity in Massachusetts, W85-01621	1803 5G	<b>ARISTARAIN, A. J.</b> Snow Chemistry on James Ross Island (Antarctic Peninsula), W85-00519	1802 2C	1806 5A
<b>ARCIFA, M. S.</b> Oligomictic Man-Made Lake in Southeastern Brazil, W85-05647	1810 2H	<b>ARKHIPOV, G. A.</b> Consideration of Sediment Transport when Calculating Local Scour, W85-04427	1809 2J	<b>ARMSTRONG, W.</b> Plant Zonation and the Effects of the Spring-Neap Tidal Cycle on Soil Aeration in a Humber Salt Marsh, W85-06369
<b>ARDITTO, P. A.</b> Mineral-Groundwater Interactions and the Formation of Authigenic Kaolinite within the Southeastern Intake Beds of the Great Australian (Artesian) Basin, New South Wales, Australia, W85-01051	1802 2K	<b>ARKIMAA, H.</b> Landsat Classification of the Hydrolitoral Areas of the Bay of Liminka (Gulf of Bothnia, Finland), W85-03491	1807 7B	1812 2L
<b>AREKAL, G. D.</b> Trace Metal Concentrations of the Waters of a South Indian River, W85-01751	1804 5B	<b>ARKIN, G. F.</b> Radar Precipitation Estimates for a Soil Water Balance, W85-03394	1807 7A	<b>ARNEAUD-CLARKE, J. M.</b> Morobe's Micro Hydro: Reality and Potential, W85-03325
<b>ARENAS, J.</b> Limnological Study of Lake Ranco (Chile): Morphometry, Physics, Chemistry and Plankton, W85-00108	1801 2H	<b>ARMENGOL, J.</b> Annual Cycle and Spatial Heterogeneity of the Zooplankton in a Series of Reservoirs on the Guadiana River (Ciclo Anual y Heterogeneidad Espacial en el Zooplancton de una Cadena de Embalses del Rio Guadiana), W85-05748	1810 2H	1804 5B
<b>AREY, F. K.</b> Free Fluoride of the Pamlico River in North Carolina: A New Method to Localize the Discharge of Polluted Water into an Estuary, W85-03539	1807 5B	Phosphorus Compounds in the Sediment of the Sau Reservoir (Barcelona, NE Spain) Throughout its Twenty-year Existence, W85-05638	1810 2H	<b>ARNELL, V.</b> Rainfall Data For the Design of Detention Basins, W85-01695
<b>ARFI, R.</b> Gulf of Fos (France): Main Hydrological Features (1976-1978), W85-03695	1807 2L	<b>ARMENTANO, T. V.</b> Assessment of Aquatic Resources Altered or at Risk From Acidic Deposition, W85-00936	1802 5B	1804 2E
Phytoplankton Distribution in the Coastal Area Subject to the Impact with the Tiber River Outfall, W85-02569	1805 5C	<b>ARMITAGE, P. D.</b> Chironomidae in a Pennine Stream System Receiving Mine Drainage and Organic Enrichment, W85-05868	1811 5C	<b>ARNEAUD, P. A.</b> Vertical Profiles of Primary Productivity, Biomass and Physico-Chemical Properties in Meromictic Big Soda Lake, Nevada, W85-01468
<b>ARGAMAN, Y.</b> Evaluation of Chloroform Removal in a Biological Treatment System to Meet BAT Limits, W85-05434	1810 5D	Classification of Sites on British Rivers Using Macroinvertebrates, W85-05674	1810 2H	1803 2H
Single Sludge Nitrogen Removal in an Oxidation Ditch, W85-04296	1808 5D	Preliminary Classification of Running-Water Sites in Great Britain Based on Macro-Invertebrate Species and the Prediction of Community Type Using Environmental Data, W85-00293	1801 2H	<b>ARNOLD, L. E.</b> Effect of Feedlot Runoff on a Southern Illinois Forested Watershed, W85-06617
<b>ARGO, D. G.</b> Biofilm Fouling of RO Membranes - Its Nature and Effect on Treatment of Water for Reuse, W85-00712	1802 5D	<b>ARMON, R.</b> Comparison of Current Methods of Poliovirus Concentration from Tap Water, W85-04492	1809 5F	1812 5D
		<b>ARMSTRONG, B.</b> Water Conservation in the Northwest Territories - Public Education and Awareness Program, W85-04920	1809 3D	<b>ARONSON, D. A.</b> Geohydrology of the Meadowbrook Artificial-Recharge Project Site in East Meadow, Nassau County, New York, W85-01774
				1804 2F
				<b>AROZARENA, C. E.</b> Validation of an Automated Fluorescein Method for Determining Bromide in Water, W85-06737
				1812 5A
				<b>ARPAIA, M.</b> Usefulness of Measuring the Corrosion Rates of Soils (Utilite des Mesures de Corrosivite des Sols), W85-01992
				1804 8G
				<b>ARSEN'EV, S. A.</b> Contribution to the Theory of Steady Flows in River Mouths, W85-04112
				1808 2E
				<b>ARSENAULT, C.</b> Aquatic Ecology of the New Jersey Pinelands, W85-00814
				1802 6G

## AUTHOR INDEX

ATWOOD, D. F.

**ARSENAULT, J. R.**  
Aquatic Ecology of the New Jersey Pinelands, W85-00814 1802 6G

**ARSENEV, S. A.**  
Influence of Wind on Currents in River Mouths (O Vliyanii Veta na Techeniya v Ust'yakh Rek), W85-06455 1812 2E

**ARSHENEVSKII, N. N.**  
Mathematical Modeling of Hydraulic Regimes in the Transition Between the Surge Tank and Conduits of a Hydroelectric Station, W85-04419 1809 8B

Optimization of Design Parameters of Complex Surge Tanks, W85-04426 1809 8A

**ARTAN, R.**  
Water Quality Management in Sakarya River Basin: I. Planning Phase, W85-01418 1803 5G

**ARTS, W.**  
Differential Pulse Stripping-Voltammetry for Routine Heavy-Metal Analysis of Drinking Water (Differentielle Pulsinversvoltammetrie für die Schwermetallanalytik von Trinkwasser), W85-03719 1807 5A

**ARUMUGAM, K.**  
Free Jet Scour Below Dams and Flip Buckets, W85-05781 1810 8B

**ARUNACHALAM, M.**  
Nature of Primary Production in a Tropical Backwater of the Southwest Coast of India, W85-04079 1808 2L

**ARVOLA, L.**  
Autumnal and Vernal Circulation of Small Forest Lakes in Southern Finland, W85-02607 1805 2H

Diel Variation in Primary Production and the Vertical Distribution of Phytoplankton in a Polyhumic Lake, W85-03231 1807 2H

Hypolimnetic Phosphorus Retrieval by Diel Vertical Migrations of Lake Phytoplankton, W85-02286 1805 2H

Light Penetration and Some Related Characteristics in Small Forest Lakes in Southern Finland, W85-04542 1809 2H

Vertical Distribution of Primary Production and Phytoplankton in Two Small Lakes with Different Humus Concentration in Southern Finland, W85-05721 1810 2H

**ARWAY, J. A.**  
Controlling Acidic-Toxic Metal Leachates from Southern Appalachian Construction Slopes: Mitigating Stream Damage, W85-06064 1811 5G

**ASADULLAEVA, E. A.**  
New Method of Determining the Stable Cross Section of a Channel in Cohesionless Soils, W85-00473 1801 8B

**ASARIN, A. E.**  
Method of Determining the Maximum Flood Inflow to the Middle Enisei Hydroelectric Station, W85-00479 1801 4A

**ASE, T.**  
Recovery of Acid from Wastewater by Electrodialysis, W85-03977 1808 5D

Recovery of Acid from Wastewater by Electrodialysis, W85-07095 1812 5D

**ASFOUR, H. M.**  
Colour Removal from Textile Effluents Using Hardwood Sawdust as an Absorbent, W85-06659 1812 5D

**ASH, J.**  
Freshwater Wetland Vegetation of Viti Levu, Fiji, W85-06786 1812 2H

**ASH, W.**  
Freshwater Wetland Vegetation of Viti Levu, Fiji, W85-06786 1812 2H

**ASHAWA, S. C.**  
Wet Deposition of Cadmium, Lead and Copper at Deonar (Bombay) and its Relationship with Rainfall, W85-06888 1812 5B

**ASHCROFT, C. R.**  
Heavy Metals in *Fucus vesiculosus* in the Humber Estuary, W85-07105 1812 5C

**ASHLEY, G. M.**  
Sedimentation Processes in an Impoundment, Union Lake, New Jersey, W85-06162 1811 2J

Sources, Storages, and Sinks of Fine-Grained Sediments in a Fluvial-Estuarian System, W85-03677 1807 2J

**ASHTON, P. J.**  
Limnological Studies on the Pretoria Salt Pan, a Hypersaline Maar Lake, W85-02478 1805 2H

Overturn in a Hypertrophic, Warm, Monomictic Impoundment (Hartbeespoort Dam, South Africa), W85-01481 1803 2H

Simple Gravity Corer and Continuous-Flow Adaptor for Use in Sediment/Water Exchange Studies, W85-04300 1808 7B

**ASKEW, G. R.**  
Sediment Concentrations from Intensively Prepared Wetland Sites, W85-02112 1804 4C

**ASKEW, J. L.**  
Growth and Nutrient Status of Loblolly Pine Seedlings in Relation to Flooding and Phosphorus, W85-03968 1808 2I

**ASMUSSEN, L. E.**  
Nutrient Budgets for Agricultural Watersheds in the Southeastern Coastal Plain, W85-04826 1809 6G

**ASPINALL, D.**  
Proline Accumulation in the Grains, Floral Organs and Flag Leaves of Wheat and Barley in Response to Variations in Water and Nitrogen Supply, W85-05919 1811 2I

Studies on the Nitrogen and Water Relations of Wheat, II. Effects of Varying Nitrogen and Water Supply on Growth and Grain Yield, W85-05167 1810 2I

**ASPREY, K. W.**  
Prodelta Environment of a Fjord: Suspended Particle Dynamics, W85-06698 1812 2H

**ASRAR, G.**  
Assessing Solar Energy and Water Use Efficiencies in Winter Wheat: A Case Study, W85-01058 1802 3F

Automating a Class A Evaporation Pan for Semi-Continuous Recording, W85-01065 1802 2D

**ASSENMACHER, W.**  
Hyperfiltration of Surfactants Containing Solutions From the Plating Industry, W85-01223 1803 5D

**ASTON, A. R.**  
Development and Proving of Models of Large Scale Evapotranspiration: An Australian Study, W85-06681 1812 2D

Evaporation from Eucalypts Growing in a Weighing Lysimeter: A Test of the Combination Equations, W85-06191 1812 2D

**ASTON, S. R.**  
Use of Reprocessing Effluent Radionuclides in the Geochronology of Recent Sediments, W85-01098 1802 2L

**ASTRACK, R. F.**  
Managing a Public Involvement Program, W85-01574 1803 6A

**ASTRUC, A.**  
Trace Determination of Inorganic and Organic Tin in Water by Hydride Atomic Absorption Spectrometry (Dosage de l'étain Mineral et Organique en Traces dans les eaux par Spectrophotométrie d'absorption Atomique avec Génération-Décomposition d'hydrides), W85-04000 1808 5A

**ASTRUC, M.**  
Trace Determination of Inorganic and Organic Tin in Water by Hydride Atomic Absorption Spectrometry (Dosage de l'étain Mineral et Organique en Traces dans les eaux par Spectrophotométrie d'absorption Atomique avec Génération-Décomposition d'hydrides), W85-04000 1808 5A

**ATAVIN, A. A.**  
Numerical Methods of Solving One-Dimensional Problems of Hydraulics, W85-04119 1808 8B

**ATCHUE, J. A. III**  
Algal Dynamics and Nitrogen and Phosphorus Cycling in a Cypress Stand in the Seasonally Flooded Great Dismal Swamp, W85-00983 1802 2L

**ATKINSON, R. D.**  
Metals in Riparian Wildlife of the Lead Mining District of Southeastern Missouri, W85-05110 1810 5C

**ATKINSON, T. R.**  
Micro-Electronics in the Water Industry - A Review of Present and Probable Future Developments, W85-02008 1804 6A

**ATLAS, D.**  
Determining Soil Moisture from Geosynchronous Satellite Infrared Data: A Feasibility Study, W85-01152 1803 2G

**ATTA, S. A.**  
Distribution of Carbonates, Bicarbonates, and pH Values in Ground Water of the Nile Delta Region, Egypt, W85-04638 1809 2K

**ATTEY, J. W.**  
Clean Water, Dirty Dams: Oxygen Depletion and the Clean Water Act, W85-04183 1808 6E

**ATTWELL, R. W.**  
Survival and Viability of Nonculturable *Escherichia coli* and *Vibrio cholerae* in the Estuarine and Marine Environment, W85-02186 1805 5B

**ATWOOD, D. F.**  
Hydraulic Gradient Control for Groundwater Contaminant Removal, W85-05533 1810 5F

## AUTHOR INDEX

AUCLAIR, J. C.

**AUCLAIR, J. C.**  
Rapid Method for Separating Phosphorus Compounds by Molecular Weight Using Exclusion Gels and Centrifugation, W85-02439 1805 5A

Relationships between the Partitioning of Trace Metals in Sediments and Their Accumulation in the Tissues of the Freshwater Mollusc *Elliptio complanata* in a Mining Area, W85-03308 1807 5B

**AUGSPURGER, M. K.**  
Sediment and Nutrient Export in Runoff from Burned and Harvested Pine Watersheds in the South Carolina Piedmont, W85-06714 1812 5B

**AUGUSTIN, B. J.**  
Moisture Sensor-Controlled Irrigation for Maintaining Bermudagrass Turf, W85-03363 1807 3F

Moisture Sensor-Controlled Irrigation for Reducing N Leaching in Bermudagrass Turf, W85-06187 1812 5G

**AULD, D. A. L.**  
Equity and Equivalence Aspects of Effluent and Output Taxes, W85-06559 1812 6C

**AUMEN, N. G.**  
Impact of Nitrogen and Phosphorus on (14C)-Lignocellulose Decomposition by Stream Wood Microflora, W85-07136 1812 2H

Nitrogen Dynamics in Stream Wood Samples Incubated with (14C)Lignocellulose and Potassium (15N)Nitrate, W85-07137 1812 2H

**AURASTEH, R.**  
Residential Lawn Irrigation Management, W85-01195 1803 3F

**AUSSENAC, D.**  
Mathematical Model of a Mechanical-Vapor Compression Evaporator. Application to the Production of Freshwater by Seawater Desalination; Part II - Numerical Exploitation, W85-00250 1801 3A

**AUSSENAC, G.**  
Influence of Soil Drying on the Water Relations and Growth of Douglas Fir (*Pseudotsuga menziesii* (Mirb.) Franco) (Influence du dessèchement du sol sur le fonctionnement hydrique et la croissance du douglas (*Pseudotsuga menziesii* (Mirb.) Franco)), W85-02716 1806 2I

Interception of Precipitation by Forest Plantations (L'interception des précipitations par les peuplements forestiers), W85-00390 1801 2D

**AUSTIN, A.**  
Effects of Heavy Metal Contamination of the Aquatic Biota of Buttle Lake and the Campbell River Drainage (Canada), W85-07160 1812 5C

Lake Algal Populations and Physico-Chemical Changes After 14 Years Input of Metallic Mining Wastes, W85-06221 1812 5C

Periphyton Community Changes Along a Heavy Metals Gradient in a Long Narrow Lake, W85-04860 1809 5C

**AUSUBEL, J. H.**  
Ogallala Aquifer and Carbon Dioxide: Comparison and Convergence, W85-03203 1806 6D

**AUZIAS, F.**  
Economising Water and Fighting against Waste (Economie d'Eau et Lutte contre le Gasillage), W85-01996 1804 6B

**AVADHANULU, R. V. S. S.**  
Compact Modified Three-Dimensional Aquifer Simulation Program for Small Computers, W85-00317 1801 2F

**AVAKYAN, A. B.**  
Investigation of the Space-Time Variability of Physical, Chemical, and Biological Indices in Reservoirs for the Purpose of Their Regionalization with Special Reference to the Ivankovo Reservoir, W85-04104 1808 2H

Role of Higher Aquatic Vegetation in Improving Water Quality and Increasing Biological Productivity of Reservoirs, W85-06713 1812 5G

**AVANZINO, R. J.**  
Interaction of Solutes and Streambed Sediment; I. An Experimental Analysis of Cation and Anion Transport in a Mountain Stream, W85-03985 1808 2K

Transport and Concentration Controls for Chloride, Strontium, Potassium and Lead in Uvas Creek, a Small Cobble-Bed Stream in Santa Clara County, California, U.S.A.; I. Conceptual Model, W85-04270 1808 2K

**AVDEEEVA, N. I.**  
Toxicity of Condensate from Polyester II-520 Production for *Daphnia magna* Straus and Its Effect on Self-Purification (Toksichnost' Kondensata proizvodstva Poliefira P-520 Dlya *Daphnia magna* Straus i ego vliyanie na protsess samochishcheniya), W85-06461 1812 5C

**AVENS, A. K.**  
Method of Performing Ecotoxicological Experiments in Situ (Metodika Postanovki Ekotoksiologicheskogo Ekspеримента в Situ), W85-06464 1812 2L

**AVERRILL, D. W.**  
Upgrading the Performance of a Blast Furnace Scrubber Water Clarifier by Coagulation/Flocculation Optimization, W85-05439 1810 5D

**AVERY, M. J.**  
Gas Chromatography/Mass Spectrometry Determination of Water-Soluble Primary Amines as Their Pentfluorobenzaldehyde Imines, W85-06255 1812 5A

**AVILA, A.**  
Limnology of the Lago Grande de Estanya (Huesca) (Limnologia del Lago Grande de Estanya (Huesca)), W85-05746 1810 2H

**AVNIMELECH, Y.**  
Floculation of Algae and Clay to Clarify Turbid Impoundments, W85-01324 1803 5G

**AVRAMEAS, S.**  
Isolation of Pathogenic Bacteria Present in Water Using Immunoabsorbents (Isolement des bactéries pathogènes contaminant une eau à l'aide d'immunoabsorbants), W85-02441 1805 5A

**AXELRAD, D. M.**  
Light Climate in the Gippsland Lakes, Victoria, W85-03495 1807 2H

**AXLER, R. P.**  
Transformations of Nitrogen Following an Epilimnetic Nitrogen Fertilization in Castle Lake, CA: I. Epilithic Periphyton Responses, W85-06397 1812 2H

Vertical Profiles of Primary Productivity, Biomass and Physico-Chemical Properties in Meromictic Big Soda Lake, Nevada, W85-01468 1803 2H

**AXON, J. R.**  
Striped Bass Management in Lakes with Emphasis on Management Problems, W85-06402 1812 2H

**AYAR, N. S.**  
Growth and Heavy Metal Removal by Klebsiella aerogenes at Different pH and Temperature, W85-01439 1803 6A

**AYDIN, M.**  
Quantification of Volatile Sulfur Compounds Related to the Corrosion of Concrete Sewers, W85-01128 1803 5C

**AYERS, J. F.**  
Diagenesis and Pore-Space Evolution within Recent and Pleistocene Carbonate Units of Orote Peninsula, Guam, W85-02027 1804 2F

Feasibility Study of Developing Valley-Fill Aquifers for Village Water Supplies in Southern Guam, W85-02026 1804 2F

Hydrogeologic Investigation of Agana Swamp Northern Guam, W85-02029 1804 2F

**AYERS, W. H.**  
Simulation of Dispersion of Heavy Particles in Confined Turbulent Flows, W85-00197 1801 2J

**AYLOR, D. E.**  
Enhanced Longitudinal Mixing in a Lake Caused by Inflow-Induced Circulation, W85-05501 1810 2H

**AYRES, J. E.**  
Past and Pending Decisions Controlling San Francisco Bay and Delta, W85-00577 1802 6E

**AZIS, P. K. A.**  
Nature of Primary Production in a Tropical Backwater of the Southwest Coast of India, W85-04079 1808 2L

**AZKONA, A.**  
Sources of Pollution of the Estuary of the River Nervion, Spain - A Case Study, W85-01396 1803 5B

**AZUMI, T.**  
Preliminary Studies on Treatment of Chromium Tannery Waste Sludge by Anaerobic Digestion, W85-04251 1808 5D

**BAAS, D. S.**  
Changes in Cladocera Community Structure and Fossil Pigment Stratigraphy as Compared to the Fire History of Elk Lake, Clearwater Co., MN, U.S.A., W85-05624 1810 5C

**BABAJIMOPoulos, C.**  
Hydraulic Loading for Land Treatment Sites Under Non-Ideal Conditions, W85-05401 1810 5D

**BABB, A. F.**  
Effect of Reservoir Induced Circulation on the Water Quality of Recreational Freshwater Embayments, W85-06317 1812 5B

**BABCOCK, B. B.**  
Leak Detection and Unaccounted-for Water Analysis, W85-04021 1808 6C

## AUTHOR INDEX

BAKER, E. T.

<b>BABCOCK, H.</b> Rivers: Our Vanishing Heritage, W85-00282	1801 4A	<b>BACHTEAL, R. M.</b> Water Plant Serves Two Masters, W85-00738	1802 5F	<b>BAIDYA, K. N.</b> Anatomy of the Gordon-Franklin (Tasmania) Dam Controversy; Socio-Economic, Political and Environmental Implications - a Viewpoint, W85-05034
<b>BABCOCK, R. H.</b> Application of Programmable Calculators to Water Works Practice, W85-01317	1803 7C	<b>BASIC, S.</b> Some Characteristics of Chemical Crystallization in Water Purification Process, W85-04409	1809 5F	<b>BAILEY, D. A.</b> Development of a Comprehensive Sampling Programme for Yorkshire Water Authority, W85-03885
<b>BABICH, H.</b> Heavy Metal Toxicity to Microbe-Mediated Ecologic Processes: A Review and Potential Application to Regulatory Policies, W85-04435	1809 5C	<b>BACKSTROM, V.</b> Fluidized Bed Technology in the Anoxic Treatment of Forest Industry Wastewaters, W85-07006	1812 5D	<b>BAILEY, D. G.</b> Anaerobic Treatment of Tannery Waste, W85-05554
<b>Nickel Toxicity to Microbes: Effect of pH and Implications for Acid Rain,</b> W85-00286	1801 5C	<b>BADAWY, M. I.</b> Organochlorine Insecticides and PCBs in River Nile Water, Egypt, W85-04352	1808 5B	<b>BAILEY, M. C.</b> Investigation into the Hydraulic Resources of a Lagoon in Portugal, W85-04461
<b>BABIN, J.</b> Modelling Winter Oxygen Depletion Rates in Ice-Covered Temperate Zone Lakes in Canada, W85-04843	1809 2H	<b>Organochlorine Insecticides and PCBs in Water, Sediment, and Fish from the Mediterranean Sea,</b> W85-04473	1809 5B	<b>BAILEY, R. G.</b> Note on Some Investigations Carried out in the Area of the Sudan Plain to be Affected by the Jonglei Canal, W85-01028
<b>BABISH, J. G.</b> Toxicologic Studies Associated with the Agricultural Use of Municipal Sewage Sludge and Health Effects among Sewage Treatment Plant Workers, W85-04776	1809 5E	<b>Organochlorine Residues in Fish from the River Nile, Egypt,</b> W85-01458	1803 5B	<b>BAILEY, R. H.</b> Human Modification of Molluscan Habitats in Little Creek Estuary, Virginia, W85-04859
<b>BABU, D. K.</b> Finite Element-Finite Difference Alternating Direction Algorithm for Three-Dimensional Groundwater Transport, W85-04170	1808 2F	<b>Persistence and Fate of Methyl Parathion in Sea Water,</b> W85-01090	1802 5B	<b>BAILEY, R. G.</b> Measurement of Soil Water Content Using a Portable TDR Hand Probe, W85-02801
<b>Flow to a Partially Penetrating Well in a Double-Porosity Reservoir,</b> W85-02367	1805 2F	<b>BADER, H.</b> Improved Ammonia Oxidation by Ozone in the Presence of Bromide Ion During Water Treatment, W85-02430	1805 5A	<b>BAILLE, C. R.</b> Wet Oxidation for Industrial Waste Treatment, W85-05772
<b>BACCINI, P.</b> Regulation of Trace Metal Concentrations in Freshwater Systems, W85-05327	1810 2K	<b>BADR, A. W.</b> Stream Water Levels Affect Field Water Tables and Corn Yields, W85-04726	1809 2F	<b>BAIMANOV, K. I.</b> Effect of Suspended Sediments on Hydraulic Resistances of a Channel, W85-00431
<b>BACHHAUSEN, P.</b> Determination of Nitrate in Waters by Means of Chromotropic Acid (Bestimmung von Nitrat in Gewässern mit Hilfe von Chromotropsäure), W85-06758	1812 5A	<b>BAER, R. G.</b> Heavy Snow Loads Plague Reservoir Roof, W85-05482	1810 8A	<b>BAIR, E. S.</b> Potentiometric Mapping from Incomplete Drill- Stem Test Data: Palo Duro Basin Area, Texas and New Mexico, W85-05841
<b>BACHMAIER, J.</b> Characteristics of Leachates from Hazardous Waste Landfills, W85-02118	1804 5B	<b>BAERT, L.</b> Evaluation of the Burns Model for Nitrate Movement in Wet Sandy Soils, W85-04248	1808 2K	<b>BAIRD, R. F.</b> Doing a Job on Data, W85-04651
<b>BACHMAN, L. J.</b> Field and Laboratory Analyses of Water from the Columbia Aquifer in Eastern Maryland, W85-01533	1803 5A	<b>BAGDASARYAN, A. B.</b> Calculation of Seepage from a Reservoir by the Mathematical Modeling Method, W85-05822	1810 2F	<b>BAIRD, W. F.</b> Design of Armour Systems for the Protection of Rubble Mound Breakwaters, W85-01707
<b>BACHMANN, A.</b> Performance Characteristics of the Anaerobic Baffled Reactor, W85-04495	1809 5D	<b>BAGDE, U. S.</b> Distribution and Periodicity of Total, Faecal Coliform Bacteria in an Aquatic Ecosystem, W85-01675	1804 5B	<b>BAJWA, S. J.</b> Spectrophotometric Determination of Nitrate and Nitrite in Natural Water and Sea-Water, W85-06571
<b>BACHMANN, B. W.</b> Calculation of Phosphorus and Nitrogen Loadings to Natural and Artificial Lakes, W85-02622	1805 2H	<b>BAGLEY, J. M.</b> Inadvertent Income Redistribution Effects of State Water Development Financing, W85-00367	1801 6E	<b>BAJWA, M. S.</b> Effect of Sodium and Bicarbonate Irrigation Waters on Sodium Accumulation and on Maize and Wheat Yields in Northern India, W85-05921
Influence of Reservoir Transit on Riverine Algal Transport and Abundance, W85-03829	1808 2H	Satisfying Instream Flow Needs Under Western Water Rights, W85-06030	1811 6E	<b>BAK, R. P. M.</b> Reef-Building Coral Skeletons as Chemical Pollution (Phosphorus) Indicators, W85-00200
Method for Measuring Oxygen in Aquatic Mi- crozones, W85-04312	1808 2K	<b>BAGOTSKII, S. V.</b> Model of the Development of Phytoplankton in the Ucha Reservoir, W85-04097	1808 2H	<b>BAKER, A. L.</b> Family of Pneumatically-Operated Thin Layer Samplers for Replicate Sampling of Heterogeneous Water Columns, W85-06787
Wind Resuspension of Sediments in a Prairie Lake, W85-03827	1808 2J	<b>BAHLER, M.</b> Suggestion for Year-Round Wastewater Utilization in the Forestry Industry (Vorschlag zur ganzjährigen Abwasserverwertung in der Forstwirtschaft), W85-01971	1804 5D	<b>BAKER, D. B.</b> Regional Water Quality Impacts of Intensive Row-Crop Agriculture: A Lake Erie Basin Case Study, W85-03962
<b>BACHOFEN, R.</b> Performance of an Anaerobic Filter for Purification and Methane Production from Waste Water of a Sugar Refinery, W85-01605	1803 5D	<b>BAI, L.</b> Role of Small Hydro in Rural Electrification, W85-04949	1809 6B	<b>BAKER, E. T.</b> Patterns of Suspended Particle Distribution and Transport in a Large Fjordlike Estuary, W85-02294

## AUTHOR INDEX

**BAKER, J. A.**

<b>BAKER, J. A.</b>	Sponge Sentinel of Heavy Metals, W85-06431	1812 5A	(Ispol'zovanie Rachkovogo Zooplanktona (Crustacea) Dlya Otsenki Zagryazneniya oz. Ba- laton Tyazhelyimi Metaliami), W85-06469	1812 5A
Environmental Effects of Tennessee-Tombigbee Project Cutoff Bendways, W85-06965	1812 6G			
Response Fishes to Periodic Spring Floods in a Southwestern Stream, W85-00130	1801 2H			
Study of Cutoff Bendways on the Tombigbee River, W85-06928	1812 6G			
<b>BAKER, J. E.</b>				
Geohydrologic Modelling for Industrial Waste Disposal Site Evaluation, W85-05379	1810 5B			
<b>BAKER, J. H.</b>				
Bacterial Activity Associated with the Decom- position of Woody Substrates in a Stream Sedi- ment, W85-00105	1801 5B			
<b>BAKER, J. L.</b>				
Runoff and Sediment Transport Within and From Small Agricultural Watersheds, W85-04734	1809 2J			
Simulated Effects of Fertilizer Management on Nitrate Loss with Tile Drainage Water for Con- tinuous Corn, W85-04739	1809 6G			
Water and Pesticide Volatilization from a Waste Disposal Pit, W85-03389	1807 5B			
<b>BAKER, J. R.</b>				
Limnology in Reservoirs on the Colorado River, W85-01812	1804 2H			
<b>BAKER, K. K.</b>				
Family of Pneumatically-Operated Thin Layer Samplers for Replicate Sampling of Heterogene- ous Water Columns, W85-06787	1812 7B			
<b>BAKER, M. B. JR.</b>				
Changes in Streamflow in an Herbicide-Treated Pinyon-Juniper Watershed in Arizona, W85-03563	1807 3B			
<b>BAKER, R.</b>				
Behaviour of Turbine, Vortex and Electromag- netic Flowmeters, W85-00198	1801 7B			
<b>BAKER, S. J.</b>				
Simple Analytical Solutions for the HP41CV Programmable Calculator, W85-02695	1805 4B			
<b>BAKER, V. R.</b>				
Paleoflood Hydrologic Techniques for the Ex- tension of Streamflow Records, W85-04329	1808 2E			
<b>BAKER, W. H.</b>				
Grouting Rehabs Earth Dam, W85-02728	1806 8A			
<b>BAKIOGLU, M.</b>				
Formation of Ripples on an Erodible Bed, W85-03034	1806 2J			
<b>BAKKER, K.</b>				
Influence of Rainfall Characteristics on the Pol- lution Emission, W85-01697	1804 2E			
<b>BALAKRISHNAN, K. P.</b>				
Development and Ecodisaster: A Lesson from Cochin Backwater System, W85-00580	1802 5C			
<b>BALANI, M. C.</b>				
Heavy Metals in the Bombay Harbour Area, W85-04892	1809 5C			
<b>BALAVENKATASUBBAIAH, M.</b>				
Effect of Cupric Chloride on Oxidative Metabo- lism in the Freshwater Teleost, <i>Tilapia mossam- bica</i> , W85-00271	1801 5C			
<b>BALDI, F.</b>				
Mercury Pollution in Marine Sediments Near a Chloralkali Plant: Distribution and Availability of the Metal, W85-03030	1806 5B			
<b>BALDWIN, M.</b>				
Why Not Here - An Engineer Looks at Inland Waterway Transport, W85-02947	1806 8A			
<b>BALE, A. J.</b>				
Preliminary Model of the Dispersal and Biologi- cal Effect of Toxins in the Tamar Estuary, Eng- land, W85-00266	1801 5B			
<b>BALES, R. C.</b>				
Chrysotile Asbestos in California Surface Waters: From Upstream Rivers Through Water Treatment, W85-00704	1802 5B			
<b>BALEUX, B.</b>				
Dynamics of Pollution-Indicator and Heterotro- phic Bacteria in Sewage Treatment Lagoons, W85-02935	1806 5D			
<b>BALKOVA, L. V.</b>				
Influence of a Karst on Chemical Composition of River Waters and the Dissolved Substances Flow (Vliyanie Karsta Na Khimicheskii Sostav Rechnykh Vod I Stok Rastvorennykh Vesh- chestv), W85-06809	1812 2K			
<b>BALL, J. W.</b>				
Specific-Ion Electrode Determinations of Sul- fide Preconcentrated from San Francisco Bay Waters, W85-03978	1808 2K			
<b>BALL, P. R.</b>				
Nitrate Leaching from Grassland, W85-02404	1805 5G			
<b>BALLANTINE, L.</b>				
Acute and Chronic Toxicity of Atrazine to Estu- arine Fauna, W85-06413	1812 5C			
<b>BALLANTINE, L. G.</b>				
Mathematical Modeling Application to Environ- mental Risk Assessments, W85-06769	1812 5B			
<b>BALLARD, L. H.</b>				
Investigation of the Carrying Capacity of the Monocacy River as a Scenic and Recreational Resource, Volume I. Maryland Scenic Rivers: The Monocacy Resource Summary Report, W85-00607	1802 6G			
<b>BALLOFFET, A.</b>				
Lower Mississippi Salinity Analysis, W85-05785	1810 2L			
<b>BALLS, H.</b>				
River Bure, United Kingdom: Patterns of Change in Chemistry and Phytoplankton in a Slow-Flowing Fertile River, W85-05676	1810 2E			
<b>BALMER, R. G.</b>				
Fate of Chlorine and Chloramines in Cooling Towers; Henry's Law Constants for Flashoff, W85-02915	1806 5B			
<b>BALOGH, K. V.</b>				
Utilization of Crustacea Zooplankton for Esti- mating Heavy Metal Pollution of Lake Balaton				
<b>BALRAM, A.</b>				
Trihalomethanes in Groundwater Systems, W85-06696	1812 5B			
<b>BALSTER, R. L.</b>				
Behavioral Toxicity of Trihalomethane Con- taminants of Drinking Water in Mice, W85-01212	1803 5C			
<b>BALTES, A.</b>				
Corrosion and Protection of Pipes in Develop- ing Countries, W85-01991	1804 8A			
<b>BALVAY, G.</b>				
Variability of the Physico-Chemical Characteris- tics of the Ponds of Dombes (Ain) (La Variabi- lité des Caractéristiques Physico-chimiques des Etangs de la Dombes (Ain)), W85-05650	1810 2K			
<b>BAMBER, R. N.</b>				
Autecology of <i>Cyathura carinata</i> (Crustacea : Isopoda) in a Cooling Water Discharge Lagoon, W85-05719	1810 3C			
Benthos of a Coastal Power Station Thermal Discharge Canal, W85-02542	1805 5C			
<b>BAN ETTE, C. H.</b>				
Survey for Viruses from Fresh Water That Infect a Eucaryotic Chlorella-Like Green Alga, W85-07138	1812 2H			
<b>BANASZAK, J.</b>				
Density and Biomass of Benthic Chironomidae (Diptera) in a Lake and Melioration Channel, Situated in Agricultural Landscape, W85-06857	1812 2H			
<b>BANASZAK, K. J.</b>				
Potential Effects on Ground Water of a Hypo- thetical Surface Coal Mine in Indiana, W85-04418	1809 4C			
<b>BANCROFT, K. C. C.</b>				
Arsenic Speciation in Soil-Pore Waters From Mineralized and Unmineralized Areas of South- West England, W85-04662	1809 2K			
High-Performance Liquid Chromatography with Hydride Generation/Atomic Absorption Spectrometry for the Determination of Arsenic Species with Application to Some Water Sam- ples, W85-07162	1812 5A			
<b>BANDIN, O. L.</b>				
Estimation of the Fatigue Life of Lock-Gate Elements of the Moscow Canal, W85-01141	1803 8C			
<b>BANDYOPADHYAY, S. S.</b>				
Investigation of Moisture-Induced Variation in Subgrade Modulus by Cross-Correlation Method, W85-06063	1811 8D			
<b>BANERJEE, A. K.</b>				
Seasonal Distribution of <i>Vibrio parahaemolyticus</i> in Freshwater Environns and in Association with Freshwater Fishes in Calcutta, W85-04261	1808 5B			
<b>BANERJEE, D. K.</b>				
Comparison of Seasonal and Diurnal Patterns of Some Physico-Chemical Parameters of the Open and Closed Parts of Loktak Lake, Manipur, India, W85-05444	1810 2H			
<b>BANERJEE, S.</b>				
Solubility of Organic Mixtures in Water, W85-02109	1804 5B			

## AUTHOR INDEX

BARNES, C. R.

<b>BANERJI, S. K.</b> Stabilization of Sludge from an Oxidation Ditch, W85-02575	1805 5E	<b>BARCELONA, M. J.</b> Guide to the Selection of Materials for Monitoring Well Well Construction and Ground-Water Sampling, W85-05350	1810 7B	<b>BARICA, J.</b> Empirical Models for Prediction of Algal Blooms and Collapses, Winter Oxygen Depletion and a Freeze-Out Effect in Lakes: Summary and Verification, W85-02631	1803 2H
<b>BANGER, V. S.</b> Heavy Metals in the Bombay Harbour Area, W85-04892	1809 5C	<b>Laboratory Evaluation of Ground Water Sampling Mechanisms,</b> W85-00364	1801 5A	<b>Gas Supersaturation as a Cause of Early Spring Mortality of Stocked Trout,</b> W85-04844	1809 2H
<b>BANKS, D. J.</b> Construction of Riding Mill Weir, W85-06172	1811 8A	<b>Sampling for Organic Contaminants in Groundwater,</b> W85-00701	1802 5A	<b>BARKAY, T.</b> Effect of Metal-Rich Sewage Sludge Application on the Bacterial Communities of Grasslands, W85-05047	1810 5C
<b>BANKS, H. O.</b> Groundwater Management Plan for Study Area 1, Coastal Plain Formations, W85-06334	1812 6F	<b>Sampling Tubing Effects on Groundwater Samples,</b> W85-04655	1809 7B	<b>BARKER, J. A.</b> Generalized Well Function Evaluation for Homogeneous and Fissured Aquifers, W85-05537	1810 2F
<b>BANNERMAN, R.</b> Estimating Nonpoint Pollution from Small Urban Watersheds, W85-07055	1812 5B	<b>BARCLAY, D. S.</b> Retrofitting Apartment Buildings To Reduce Costs and Water Demand, W85-04690	1809 3D	<b>Pumping Tests in Patchy Aquifers,</b> W85-00300	1801 4B
<b>BANOUB, M. W.</b> Effect of Some Heavy-metals on Glucose Assimilation in Polluted Waters, W85-04705	1809 5C	<b>BARDECKI, M. J.</b> What Value Wetlands, W85-01321	1803 2L	<b>BARKER, J. F.</b> Migration and Attenuation of Selected Organics in a Sandy Aquifer - A Natural Gradient Experiment, W85-04635	1809 5B
<b>BANTA, G.</b> Phytoplankton Standing Stock, Size Distribution, Species Composition and Productivity Along a Trophic Gradient in Green Bay, Lake Michigan, W85-02640	1805 2H	<b>BARDEN, D. W.</b> Computing Water System Development Charges, W85-03613	1807 6C	<b>Occurrence and Distribution of Organic Chemicals in Two Landfill Leachate Plumes,</b> W85-03667	1807 5B
<b>BANTZ, L.</b> Water Resources Development and Management Plans; Part 7: Time Variable Effluents in Water Quality Computations - An Aspect of the Water Quality Management Study 'Bewirtschaftungsplan Leine' (Bewirtschaftungsplane; Teil VII: Guteberechnungen mit zeitvarianten Schmutzwassereinleitungen - ein Teilspekt der Pilotstudie Bewirtschaftungsplan Leine), W85-00967	1802 5B	<b>BARDOSSY, A.</b> Multicriterion Network Design Using Geostatistics, W85-05499	1810 2F	<b>BARKER, R. D.</b> Use of Resistivity and Gamma Logging in Lithostratigraphical Studies of the Chalk in Lincolnshire and South Humberside, W85-03772	1808 7B
<b>BAOZHENG, W.</b> EWWTUS in China, W85-05834	1810 5D	<b>BARDSLEY, W. E.</b> Note on Estimating the Unit Hydrograph (Effective Rainfall Unknown), W85-02496	1805 2A	<b>BARKLEY, W. A.</b> Near Zero D.O. Activated Sludge Case History, W85-05556	1810 5D
<b>BAPESHWARA RAO, V. S. V.</b> Transient Performance of a Single Basin Solar Still with Water Flowing Over the Glass Cover, W85-01219	1803 3A	<b>Note on Selecting an Optimum Raingauge Subset,</b> W85-05541	1810 2B	<b>BARKOW, J. W.</b> Seasonal Growth and Community Composition of Phytoplankton in a Eutrophic Wisconsin Impoundment, W85-04311	1808 2H
<b>BARAT, S. K.</b> Ammonification as Affected by the Oxygen Level of Water, W85-05615	1810 5C	<b>Note on the Form of Distributions of Precipitation Totals,</b> W85-02466	1805 2B	<b>BARLOCHER, F.</b> Effects of Cadmium on Aquatic Hyphomycetes, W85-02592	1805 5C
<b>BARBER, C.</b> Recirculation of Leachate as a Landfill Management Option: Benefits and Operational Problems, W85-03768	1808 5G	<b>BAREKYAN, A. SH.</b> Selecting Sites of Projected Fish Passes, W85-00159	1801 8I	<b>BARLOW, J. P.</b> Partitioning of Phosphorus Between Particles and Water in a River Outflow, W85-02075	1804 2H
<b>BARBER, F. R.</b> Acid Gases and Acid in Rain Monitored for over 5 Years in Rural East-Central England, W85-03290	1807 5B	<b>BARFIELD, B. J.</b> Chemical Flocculation for Suspended Solids Removal at Remote Mine Sites, W85-04730	1809 5D	<b>BARLISAS, B. G.</b> Acute Toxicity Screening of Water Pollutants Using a Bacterial Electrode, W85-03668	1807 5A
<b>BARBER, R. T.</b> Carbon and Nitrogen Primary Productivity in Three North Carolina Estuaries, W85-00665	1802 2L	<b>Hydrology and Sedimentology Watershed Model. Part I: Operational Format and Hydrologic Component,</b> W85-04735	1809 2A	<b>BARNA, F. A.</b> Wet Oxidation for Industrial Waste Treatment, W85-05772	1810 5D
<b>BARBIER, D.</b> Destruction by Ozone of Amoeba Cysts in Recycled Swimming Pool Water, W85-02725	1806 5D	<b>Hydrology and Sedimentology Watershed Model. Part II: Sedimentology Component,</b> W85-04736	1809 2A	<b>BARNARD, T. E.</b> Errors in Gran Function Analysis of Titration Data for Dilute Acidified Water, W85-06231	1812 5A
<b>BARBIER, R.</b> Contribution of Two Aquatic Macrophytes to the Nutrient Budget of Lobo Reservoir, Sao Paulo, Brazil, W85-05649	1810 2H	<b>Modeling Sediment Detention Ponds Using Reactor Theory and Advection-Diffusion Concepts,</b> W85-06506	1812 2J	<b>BARNDEN, A. D.</b> EQO Theory in Practice, W85-04335	1808 5G
		<b>Performance of Grass Filters Under Laboratory and Field Conditions,</b> W85-04729	1809 2J	<b>BARNES, C. J.</b> Distribution of Deuterium and $^{18}\text{O}$ in Dry Soils; 3. Theory for Non-Isothermal Water Movement, W85-03086	1806 2G
		<b>Sediment Detention Pond Model Using CSTRS Mixing Theory,</b> W85-04731	1809 5E	<b>Water Relations of Saturated Bentonite: Some Effects of Temperature and Solution Salt Concentration,</b> W85-05186	1810 2G
				<b>BARNES, C. R.</b> Polychlorinated Biphenyl Concentrations in the Hudson River Water and Treated Drinking Water at Watertown, N.Y., W85-00835	1802 5F

## AUTHOR INDEX

**BARNES, C. R.**

Trends in Polychlorinated Biphenyl Concentrations in Hudson River Water Five Years after Elimination of Point Sources, W85-00856	1802 5B	<b>BARR, N. J.</b> Irrigation of Monterey Pine with Wastewater: Effect on Soil Chemistry and Groundwater Composition, W85-03855	1808 5D	Role of Fish Distribution on Estimates of Standing Crop in a Cooling Reservoir, W85-02374	1805 5C
<b>BARNES, D.</b> Influence of Organic Shock Loads on the Performance of an Anaerobic Fluidized Bed System, W85-03558	1810 5D	<b>BARRETT, S. E.</b> Blending Chloraminated and Chlorinated Waters, W85-05476	1810 5F	<b>BASEI, R.</b> On-Line Measurement of Organic Carbon in Waste Water, W85-03745	1807 5D
Oxidation Ditches - Principles and Innovations, W85-03721	1807 5D	<b>BARRICK, R. C.</b> Hydrocarbon and Azaarene Markers of Coal Transport to Aquatic Sediments, W85-03056	1806 5A	<b>BASFORD, D. J.</b> Underwater Experiments on the Effects of Sewage Sludge on a Marine Ecosystem, W85-01628	1803 5C
<b>BARNES, J. R.</b> Leaf Litter Processing in Aquatic Systems: A Two Variable Model, W85-00412	1801 2K	<b>BARRIE, L. A.</b> Concentration and Deposition of Acidity, Major Ions and Trace Metals in the Snowpack of the Eastern Canadian Shield During the Winter of 1980-1981, W85-02730	1806 5B	<b>BASHKIN, V. N.</b> Study of Landscape-Agrogeochemical Balance of Nutrients in Agricultural Regions: Part III. Nitrogen, W85-02923	1806 5B
<b>BARNES, M. A.</b> Stress-Related Changes in Lake Whitefish ( <i>Coregonus clupeaformis</i> ) Associated with a Hydroelectric Control Structure, W85-03312	1807 6G	<b>BARRY, D. A.</b> Spatial Distributions of Precipitation Acidity and Major Ion Wet Deposition in North America During 1980, W85-04647	1809 5B	<b>BASHMAKOVA, I. K.</b> Evaluation of the Consumed Organic Substance Stock and Intensity of Its Destruction in the Kelta Delta of the Danube (Otsenka Zapasa Usvoyemogo Organicheskogo Veshchestva i Intensivnosti Ego destruktii v Vode Kiliiskoi Del'ty Dunaya), W85-06482	1812 2J
<b>BARNES, S.</b> Computer-Assisted Data Processing and Analysis System for Ground-Based Meteorological Data Collection, W85-06924	1812 7C	<b>BARRY, D. A.</b> Interpretation of Leaching under Multiple Fertilizer Applications, W85-06564	1812 5B	<b>BASKARAN, M.</b> Composition of Mineral Fractions of the Narbada and Tapti Estuarine Particles and the Adjacent Arabian Sea Sediments off Western India, W85-04373	1808 2L
<b>BARNES-SVARNEY, P. L.</b> Ice Jam Prediction Model as a Tool in Floodplain Management, W85-05504	1810 2C	<b>BARRY, M.</b> Silage Effluent Digestion by an Upflow Anaerobic Filter, W85-00556	1802 5F	<b>BASKETT, T. S.</b> Metals in Riparian Wildlife of the Lead Mining District of Southeastern Missouri, W85-05110	1810 5C
<b>BARNETT, B. B.</b> Reovirus Removal and Inactivation by Slow-Rate Sand Filtration, W85-02940	1806 5F	<b>BARTELL, S. M.</b> Fates of Aromatics Model (FOAM): Description, Application, and Analysis, W85-00260	1801 5B	<b>PRESER, S. M.</b> Presence and Biomagnification of Organochlorine Chemical Residues in Oxbow Lakes of Northeastern Louisiana, W85-02191	1805 5B
<b>BARNETT, B. E.</b> Heavy Metals in <i>Fucus vesiculosus</i> in the Humber Estuary, W85-07105	1812 5C	<b>BARTELT, G. A.</b> Duck Breeding Ecology and Harvest Characteristics on Grand River Marsh Wildlife Area, W85-06903	1812 2H	<b>BASKIN, D. E.</b> Unified Analysis of Thickening, W85-04964	1809 5E
<b>BARNETT, M. W.</b> Activated Sludge with Powdered Activated Carbon Treatment of a Dyes and Pigments Processing Wastewater, W85-05553	1810 5D	<b>BARTELT, U.</b> Increase of Capacity of the Weidataal Dam System (Die Steigerung der Leistungsfähigkeit des Systems der Weidatalsperrern), W85-03455	1807 4A	<b>BASLER, J. A.</b> Instrumentation Used for Hydraulic Testing of Potential Water-Bearing Formations at the Waste Isolation Pilot Plant Site in Southeastern, New Mexico, W85-01827	1804 7B
Treatment of Dye and Pigment Processing Wastewater by the Activated Sludge Process, W85-05284	1810 5D	<b>BARTHA, R.</b> Mechanisms and Pathways of Aniline Elimination from Aquatic Environments, W85-02932	1806 5B	<b>BASOV, M. I.</b> Abiotic Environmental Factors and Primary Production of Water Bodies of the Kovda River Basin (Abioticheskie Faktory i Pervichnaya Produktsiya Vodoemov Basseina r. Kovdy), W85-06480	1812 2H
<b>BARNETT, P. M.</b> Mixing Water and the Commerce Clause: the Problems of Practice, Precedent, and Policy in <i>Sporhase v. Nebraska</i> , W85-01243	1803 6E	Methylation and Demethylation of Mercury Under Controlled Redox, pH, and Salinity Conditions, W85-03737	1807 5B	<b>BASS, O. V.</b> Anthropogenic Factor in the Development of the Coastal Zone of the Baltic Sea, W85-04111	1808 6G
<b>BARNEY, G. S.</b> Radionuclide Sorption and Desorption Reactions with Interbed Materials from the Columbia River Basalt Formation, W85-06773	1812 5B	<b>BARTHOLDY, J.</b> Transport of Suspended Matter in a Bar-built Danish Estuary, W85-00913	1802 2J	<b>BASSIN, N. J.</b> Dinosaur National Monument: The Evolution of a Federal Reserved Water Right, W85-06248	1812 6E
<b>BARNHISEL, R. I.</b> Performance of Grass Filters Under Laboratory and Field Conditions, W85-04729	1809 2J	<b>BARTHOLOMEW, G. W.</b> Influence of Spatial and Temporal Variations on Organic Pollutant Biodegradation Rates in an Estuarine Environment, W85-00097	1801 5B	<b>BASTIAN, J. G.</b> Increased Chloroform Production from Model Components of Aquatic Humus and Mixtures of Chlorine Dioxide/Chlorine, W85-03664	1807 5F
<b>BARNHOORN, D.</b> Treatment of Ferruginous Groundwaters for River Augmentation in the Waller's Haven, East Sussex, W85-01522	1803 5F	<b>BARTOS, J. M.</b> Effects of Free and Combined Chlorine and Exposure Duration on Rainbow Trout, Channel Catfish, and Emerald Shiners, W85-04681	1809 5C	<b>BASU, S.</b> Removal of Phenol Using Water Hyacinth in a Continuous Unit, W85-05449	1810 5D
<b>BARNSTON, A. G.</b> Effect of Irrigation on Warm Season Precipitation in the Southern Great Plains, W85-03844	1808 6G	<b>BARWICK, D. H.</b> Growth Responses of Fish to Changing Environmental Conditions in a South Carolina Cooling Reservoir, W85-01496	1803 6G	<b>BATCHELOR, B.</b> Innovative Process for Treating Recycled Cooling Water, W85-03334	1807 5D
Rainfall Measurement Accuracy in FACE: A Comparison of Gage and Radar Rainfalls, W85-00915	1802 7B				
<b>BAROUX, J. P.</b> Use and Re-Use of Itaipu's Diversion Gates, Part Two, W85-01553	1803 8C				

## AUTHOR INDEX

BAYLEY, S.

**BATCHELOR, C. H.**  
Crop Evaporation and Surface Conductance Calculated Using Soil Moisture Data from Central India, W85-01063 1802 2D

**BATEL, R.**  
DNA Damage by Benzo(a)pyrene in the Liver of Mosquito Fish *Gambusia affinis*, W85-06550 1812 5C

**BATES, D. J.**  
Field Investigations of Overland Flow Treatment of Municipal Lagoon Effluent, W85-06926 1812 5D

**BATES, E. R.**  
Field Survey of Heavy Metal Uptake by Naturally Occurring Saltwater and Freshwater Marsh Plants, W85-06976 1812 5B

Influence of Disposal Environment on Availability and Plant Uptake of Heavy Metals in Dredged Material, W85-05601 1810 5B

Seasonal Growth and Community Composition of Phytoplankton in a Eutrophic Wisconsin Impoundment, W85-04311 1808 2H

**BATES, T. E.**  
Oil Shale - Potential Environmental Impacts and Control Technologies, W85-00285 1801 5C

**BATHURST, J. C.**  
Land Disposal of Sewage Sludge, Vol VIII: April 1, 1979 - March 31, 1980, W85-06991 1812 5E

Flow Resistance Estimation in Mountain Rivers, W85-06039 1811 2E

**BATIE, S. S.**  
Assessment of Urban Development into Coastal Wetlands Using Historical Aerial Photography: A Case Study, W85-00648 1802 6G

Opportunity Costs of Preserving Coastal Wetlands: A Case Study of a Recreational Housing Development, W85-04754 1809 6B

**BATIFOL, F. M.**  
Atmospheric Heavy Metals in High Altitude Surface Snows From Mont Blanc, French Alps, W85-04501 1809 5B

**BATTA, R. K.**  
Estimating Water Application Efficiency in Irrigation Checks, W85-05930 1811 3F

**BATTARBE, R. B.**  
Lake Acidification in Galloway: A Palaeoecological Test of Competing Hypotheses, W85-06013 1811 5B

**BATTARBE, R. W.**  
Inwash of Catchment Diatoms as a Source of Error in the Sediment-Based Reconstruction of pH in an Acid Lake, W85-03880 1808 5A

Spatial Variations in the Water Quality of Lough Erne, Northern Ireland, on the Basis of Surface Sediment Diatom Analysis, W85-02843 1806 2H

**BATTEN, L. G.**  
Application of Digital Mapping Technology to the Display of Hydrologic Information, a Proof-of-Concept Test in the Fox-Wolf River Basin, Wisconsin, W85-00586 1802 7A

**BATTERSON, T. R.**  
Predicting Concentration of Total Phosphorus and Chlorophyll a in a Lake with Short Hydraulic Residence Time, W85-06789 1812 2H

**BATU, V.**  
Finite Element Dual Mesh Method to Calculate Nodal Darcy Velocities in Nonhomogeneous and Anisotropic Aquifers, W85-03571 1807 2F

**BATZNER, J. C.**  
Development of a Sludge/Refuse Co-Disposal Program, W85-05367 1810 5E

**BAUDER, J. W.**  
Evaluation of Simplified Methods for Determining Unsaturated Hydraulic Conductivity of Layered Soils, W85-02319 1805 2G

**BAUER, A.**  
Soil Water Variation in Spoil and Undisturbed Sites in North Dakota, W85-00757 1802 2G

**BAUER, C. A.**  
Teratogenic and Lethal Effects of Paraquat on Developing Frog Embryos (*Rana pipiens*), W85-02968 1806 5C

**BAUER, J. E.**  
Effects of Four Aromatic Organic Pollutants on Microbial Glucose Metabolism and Thymidine Incorporation in Marine Sediments, W85-06143 1811 5C

**BAUER, T. L.**  
Correlation between Selenium Accumulation in Sunfish and Changes in Condition Factor and Organ Weight, W85-01444 1803 5C

Histopathological, Hematological, Condition-Factor, and Organ Weight Changes Associated with Selenium Accumulation in Fish from Belews Lake, North Carolina, W85-02198 1805 5C

**BAUGHEN, A. J.**  
Measurement of the Performance of Sewerage Systems and Associated Hydraulic Structures - Recent Developments, W85-04511 1809 5D

**BAUGHMAN, G. L.**  
Dynamics of Pollutant Photoreactions in the Hydrosphere, W85-03281 1807 5B

**BAUM, K.**  
Estimating Nonpoint Pollution from Small Urban Watersheds, W85-07055 1812 5B

**BAUMAN, N.**  
Short Meromictic Episode in the Dead Sea: 1979-1982, W85-02612 1805 2H

**BAUMANN, E. R.**  
Characterization and Treatment of Condensates from High Efficiency Appliances, W85-07121 1812 5D

**BAUMANN, J. S.**  
Nonpoint Pollution Control: The Wisconsin Experience, W85-05947 1811 5G

**BAUMANN, N. A.**  
Managing a Public Involvement Program, W85-01574 1803 6A

**BAUMANN, P. C.**  
Cancer in Wild Freshwater Fish Populations with Emphasis on the Great Lakes, W85-02886 1806 5A

**BAUMANN, R. H.**  
Mississippi Deltaic Wetland Survival: Sedimentation Versus Coastal Submergence, W85-00221 1801 2L

**BAUME, J.-P.**  
Numerical Modelling of a Steady State Flow in a Free Surface Looped Hydraulic Network under Fluvial Conditions (Modélisation numérique d'un écoulement permanent dans un réseau hydraulique mû par une surface libre, en régime fluvial), W85-02353 1805 2E

**BAUMERT, H.**  
Upper Limit of Phytoplankton Production in Natural Waters (Über die obere Grenze der Phytoplanktonproduktion in natürlichen Gewässern), W85-03611 1807 2H

**BAUMGARDNER, R. H.**  
Hydraulic Design of Stormwater Pumping Stations: The Effect of Storage, W85-06072 1811 8A

**BAUMGART, H.**  
Monitoring Stations and Water Quality Measurements on the River Lippe: Equipment - Results - Costs, W85-01410 1803 5A

**BAURNE, G.**  
'Trap-dams': Artificial Subsurface Storage of Water, W85-03699 1807 3B

**BAUTISTA, M. F.**  
Groundwater Source of Nitrate in Nearshore Marine Sediments, W85-04616 1809 5B

**BAVEJA, A. K.**  
Determination of Ultra Trace Concentrations of Nitrite in Polluted Waters and Soil, W85-00547 1802 5A

Toxicity of Nitrite and Its Determination in Polluted Waters Using a New Reagent, W85-07106 1812 5A

**BAWDEN, J. W.**  
Fluoride Analyses of Patient Water Supplies Requested by North Carolina Health Professionals, W85-03748 1807 5F

**BAXTER, E. H.**  
Study of Residential Stormwater Impoundments: Perceptions and Policy Implications, W85-06242 1812 4A

**BAXTER, K. M.**  
Effects of the Recharge on Sewage Effluents Upon the Quality of Chalk Groundwater, W85-04462 1809 5C

**BAXTER, M. S.**  
Radioactinium and 210Pb in Clyde Sea Loch Sediments, W85-00659 1802 5B

**BAXTER, R. M.**  
Seasonal and Comparative Aspects of Chemical Stratification in Some Tropical Crater Lakes, Ethiopia, W85-03683 1807 2H

**BAY, S. M.**  
Detoxification/Toxicification of Cadmium in Scorpionfish (*Scorpaena guttata*): Acute Exposure, W85-00878 1802 5A

**BAYAZIT, M.**  
Modelling The Runs' Properties of Annual Flows, W85-01172 1803 2E

**BAYLEY, S.**  
Vegetation and Water Chemistry of Four Oligotrophic Basin Mires in Northwestern Ontario, W85-01648 1804 2H

## AUTHOR INDEX

**BAYLEY, S. E.**

BAYLEY, S. E.  
Ecological Effects of Acid Deposition Upon Peatlands: A Neglected Field in 'Acid-Rain' Research,  
W85-02536 1805 5C

EVAPOTRANSPERSION OF A FLORIDA, U.S.A., FRESH-WATER WETLAND,  
W85-03759 1807 2D

**BAYLIFFE, M. D.**  
Distribution Problems in Water Supply,  
W85-03320 1807 5F

**BAYNE, B. L.**  
Preliminary Model of the Dispersal and Biological Effect of Toxins in the Tamar Estuary, England,  
W85-00266 1801 5B

**BAYS, L. R.**  
Leakage Control,  
W85-02016 1804 3D

**BAZUHAIR, A. S.**  
Hydrogeology of Wadi Al-Yammaniyyah, Saudi Arabia,  
W85-01527 1803 2F

**BEACH, G. L.**  
Evolution of a Drainage Network: Remote Sensing Analysis of the North Fork Toutle River, Mount St. Helens, Washington,  
W85-06303 1812 2E

**BEAR, J.**  
Motion of the Seawater Interface in a Coastal Aquifer by the Method of Successive Steady States,  
W85-05335 1810 2F

Shape of the Non-Steady Interface Intersecting Discontinuities in Permeability,  
W85-04168 1808 2F

**BEARD, M. J.**  
Effects of the Recharge on Sewage Effluents Upon the Quality of Chalk Groundwater,  
W85-04462 1809 5C

**BEARD, V. L.**  
Performance Characteristics of the Anaerobic Baffled Reactor,  
W85-04495 1809 5D

**BEASLEY, D. B.**  
ANSWERS Model,  
W85-05342 1810 2A

Soil Loss Reduction in Finley Creek, Indiana: An Economic Analysis of Alternative Policies,  
W85-05963 1811 5G

**BEASLEY, R. K.**  
Purge and Trap Chromatographic Method for the Determination of Acrylonitrile, Chlorobenzene, 1,2-Dichloroethane, and Ethylbenzene in Aqueous Samples,  
W85-02736 1806 5A

**BEAUCHAMP, J. J.**  
Subsampling Program for the Estimation of Fish Impingement,  
W85-04604 1809 5C

**BEAUDOIN, J. J.**  
Physico-Mechanical Characteristics of Hydrating Tetra calcium Aluminoferite System at Low Water/Solid Ratios,  
W85-00696 1802 8F

**BEAULIEU, P.**  
Alum Sludge: A Sampling Method for the Radioactivity in Waters (Les boues d'alun: une Méthode d'échantillonage des eaux pour l'étude des radionucléides),  
W85-04017 1808 5A

**BEAUMONT, A. R.**  
High Mortality of the Larvae of the Common Mussel at Low Concentrations of Tributyltin,  
W85-03239 1807 5C

**BEAURIVAGE, R.**

Granular Activated Carbon Regional Reactivation Project at Manchester, New Hampshire,  
W85-01620 1803 5D

**BEAVER, J. L.**

Lakewide Odours in Ontario and New Hampshire Caused by Chrysotrichomina brevitirrita Nich. (Prymnesiophyceae),  
W85-01467 1803 5B

**BECHTELER, W.**

Stochastic Model of Suspended Solid Dispersion,  
W85-04395 1808 2J

**BECK, J. M.**

Organic Water Quality and Other Factors in Poultry Plant Wastewater Renovation and Reuse,  
W85-00557 1802 5D

**BECK, M. B.**

Development and Application of Models for Water Quality Management,  
W85-01427 1803 5G

Operational River Water Quality Management,  
W85-01414 1803 5G

**BECKER, C. D.**

Assessment of Intergavel Conditions Influencing Egg and Alevin Survival During Salmonid Rearing Dewatering,  
W85-05711 1810 6G

**BECKER, L.**

Capacity Expansion of Sao Paulo Water Supply,  
W85-06034 1811 6A

**BECKER, S.**

Primary Effluent Filtration. The Warminster Experience,  
W85-05487 1810 5D

**BECKER, W. C.**

Surrogate Parameters for Monitoring Organic Matter and THM Precursors,  
W85-06491 1812 5F

**BECKER, W. H.**

From the Atlantic to the Great Lakes: A History of the U.S. Army Corps of Engineers and the St. Lawrence Seaway,  
W85-05576 1810 8A

**BECKETT, P. H. T.**

Availability to Plants of Phosphate in Sludges Precipitated from the Effluent from Sewage Treatment,  
W85-04597 1809 5E

Changes in the Extractabilities of the Heavy Metals in Water-Logged Sludge-Treated Soils,  
W85-04514 1809 5E

**BECKETT, R.**

Trace Metals in Sediments from the Yarra River,  
W85-00780 1802 5B

**BECKLEY, L. E.**

South African Estuaries and Their Importance to Fishes,  
W85-02837 1806 2L

**BEDDOME, I. C.**

Determination of Wintertime Cloud Seeding Potential in the Mogollon Rim Area of Arizona,  
W85-04218 1808 2B

**BEDELL, G. W.**

Analysis of Pollutant Enhanced Bacterial Blue-Green Algal Interrelationships Potentiating Surface Water Contamination by Noxious Blue-Green Algal Blooms,  
W85-01803 1804 5C

**BEDFORD, K. W.**

Computer Animation of Storm Surge Predictions,  
W85-05784 1810 2E

**BEER, J.**

Sulphate and Nitrate Concentrations in Snow From South Greenland 1895-1978,  
W85-06801 1812 5B

**BEETON, A. M.**

World's Great Lakes,  
W85-00917 1802 2H

**BEETS, J.**

Effects of Freshwater Runoff on Nearshore Tropical Marine Fisheries,  
W85-00064 1801 5C

**BEGHELLI, S.**

Identification of Phosphorus Dynamics in Kootenay Lake, Canada,  
W85-01111 1802 2H

**BEHAIRY, A. K. A.**

Effect of Pollution on the Coastal Waters of the Red Sea in Front of Jeddah, Saudi Arabia; 1. Environmental Conditions,  
W85-04710 1809 5C

Effect of Pollution on the Coastal Waters of the Red Sea in Front of Jeddah, Saudi Arabia; 2. Nutrient Salts,  
W85-04711 1809 5C

**BEHRENDTS, L. L.**

Optimization of Biological Recycling of Plant Nutrients in Livestock Waste by Utilizing Waste Heat from Cooling Water,  
W85-06983 1812 5D

**BEHRENDT, H.**

Testing of a Complex Ecological Model for Shallow Water Bodies,  
W85-05603 1810 2H

**BEHRENDT, T. E.**

Effects of Specific Land Uses on Nonpoint Sources of Suspended Sediment, Nutrients, and Herbicides- Pequea Creek Basin, Pennsylvania 1979-80,  
W85-00855 1802 5B

**BEIER, H.**

Design of Reservoir Basins in Flat Valleys with Special Consideration of Environmental Aspects - Presented by the River Altmühl Diversion (Umweltfreundliche Gestaltung von Staubecken in flachen Talräumen-dargestellt am Beispiel der Altmühlüberleitung),  
W85-03249 1807 8A

**BEITLINGER, T. L.**

Swimming Performance of Channel Catfish (*Ictalurus punctatus*) after Nitrite Exposure,  
W85-07153 1812 5C

**BEJDA, A. J.**

Sublethal Effects of Oiled Sediment on the Sand Worm, *Nereis (Neanthes) virens*: Induced Changes in Burrowing and Emergence,  
W85-04871 1809 5C

**BEKE, G. J.**

Predicting Volumetric Water Retentions for Subsoil Materials from Colchester County, Nova Scotia,  
W85-06154 1811 2G

**BEKIMBETOV, N. B.**

Effect of Suspended Sediments on Hydraulic Resistances of a Channel,  
W85-00431 1801 8B

**BELANGER, T. V.**

Water Quality Characteristics of Agricultural Pumpage in the Upper St. Johns River, Florida,  
W85-01386 1803 5B

**BELAUD, A.**

Model for Rapid Growth Evaluation in Fishes: the Case of the Cyprinids of Some Large French Rivers,  
W85-05717 1810 2H

## AUTHOR INDEX

BENGTSSON, A.

**BELFORD, R. K.**  
Effects of Single and Multiple Waterloggings on the Growth and Yield of Winter Wheat on a Clay Soil, W85-06136 1811 2I

**BELICHENKO, YU. P.**  
Creation of Closed Water Management Systems at Industrial Enterprises, W85-04141 1808 5D

**BELIN, C.**  
Variation of Organic Matter Extracted from Particles along the Gironde Estuary (France), W85-04372 1808 2L

**BELL, B. A.**  
Method for Establishing Site-Specific Stream Design Flows for Wasteload Allocations, W85-03336 1807 5D

Treatment of a High-Strength Industrial Waste in a Continuously Fed, Intermittently Operated, Activated Sludge System, W85-03867 1808 5D

**BELL, C. E.**  
Mortality of Adult American Shad Passing Through a 17-Megawatt Kaplan Turbine at a Low-Head Hydroelectric Dam, W85-05879 1811 6G

**BELL, G. L.**  
Sediment Trap Studies in Lake Michigan: Resuspension and Chemical Fluxes in the Southern Basin, W85-02892 1806 2J

**BELL, J. F.**  
MINES: A Model to Forecast Mine Wastewater Quality, W85-01750 1804 5B

**BELL, J. M.**  
Effect of Various Hydrologic Parameters on the Quality of Stormwater Runoff from a West Lafayette, Indiana Urban Watershed, W85-01822 1804 5B

Problem Oriented Evaluation of Institutional Decision Making and Improvement of Models Used in Regional Urban Runoff Management: Application to Indiana, W85-06306 1812 6A

**BELL, J. S.**  
Histopathological, Hematological, Condition-Factor, and Organ Weight Changes Associated with Selenium Accumulation in Fish from Belew's Lake, North Carolina, W85-02198 1805 5C

**BELL, R. T.**  
Assessing Phytoplankton and Bacterioplankton Production During Early Spring in Lake Erken, Sweden, W85-03738 1807 2H

**BELLAMY, W. D.**  
Removing Giardia Cysts with Slow Sand Filtration, W85-04831 1809 5F

**BELLAN, G.**  
Ecological Evaluation of a Permanent Diversion of a Small River into the Sewer Outlet of a Large City (Bilan Ecologique du Detournement Permanent d'un Petit Fleuve Cotier dans l'Emissoire d'Eaux Usées d'une Grande Ville), W85-01311 1803 5C

**BELLAR, T. A.**  
Determination of Halogenated Chemicals in Water by the Purge and Trap Method, Method 502.1, W85-06915 1812 5A

**BELLESSORT, B.**  
Ecological Problems Related to the Loire Estuary Development, W85-00575 1802 6G

**BELOUSCHEK, P.**  
Significance of Solvation Phenomena for the Partition of Halogenated Organic Compounds Between Water and a Paraffinic Phase (Die Bedeutung der Solvatisierung für die Verteilung von Halogenorganischen Verbindungen Zwischen Wasser und Einer Paraffinphase), W85-07024 1812 2K

**BELOV, V. V.**  
Experience in the Operation of Overflow Buttress Dams Under Severe Climatic Conditions, W85-00486 1801 4A

**BELTASO, S.**  
Conceptual Model of River Ice Breakup, W85-04046 1808 2C

**BELTMAN, B.**  
Management of Ditches. The Effect of Cleaning of Ditches on the Water Coenoses, W85-05682 1810 6G

**BELYAKOV, A. A.**  
Calculation of the Three-Dimensional Stress-Strain State of an Earth-Rock Dam, W85-00436 1801 8A

Effect of Arch Shape on the Performance of a High Rockfill Dam, W85-00491 1801 8D

Stability of a Pebble Dam with an Injected Core, W85-05026 1810 8D

**BEM, H.**  
Determination of Seven Trace Elements in Natural Waters by Neutron Activation Analysis after Preconcentration with 1-(2-Pyridylazo)-2-Naphthol, W85-06165 1811 2K

**BEMPONG, M. A.**  
Organic N-Chloramines: Chemistry and Toxicology, W85-01210 1803 5F

**BEN AIM, R.**  
Influence of Suspended Particle Size Distribution in Deep-Bed Filtration, W85-04876 1809 5F

**BEN-HUR, M.**  
Effect of Water Quality and Drying on Soil Crust Properties, W85-05189 1810 2G

**BEN-YAAKOV, S.**  
Simple Algorithm for On-Line Prediction of BOD5 by a Microprocessor-Based System, W85-02951 1806 5A

**BEN-YOSEF, J.**  
PCBs, DDTs and Other Chlorinated Hydrocarbons in Marine Organisms from the Mediterranean Coast of Israel, W85-04894 1809 5B

**BENABDALLAH, M. Z.**  
Trace Determination of Inorganic and Organic Tin in Water by Hydride Atomic Absorption Spectrometry (Dosage de l'étain Mineral et Organique en Traces dans les eaux par Spectrophotométrie d'absorption Atomique avec Génération-Décomposition d'hydrides), W85-04000 1808 5A

**BENCALA, K. E.**  
Copper Transport along a Sierra Nevada Stream, W85-00719 1802 5B

Interactions of Solutes and Streambed Sediment; 1. An Experimental Analysis of Cation and Anion Transport in a Mountain Stream, W85-03985 1808 2K

Interactions of Solutes and Streambed Sediment; 2. A Dynamic Analysis of Coupled Hydrologic and Chemical Processes That Determine Solute Transport, W85-03986 1808 2K

**BENDER, G. M.**  
Effectiveness of Street Sweeping in Urban Runoff Pollution Control, W85-00744 1802 5G

**BENDL, R. E.**  
Acute Toxicity of Kepone to Selected Freshwater Fishes, W85-01846 1804 5C

**BENDRICCHIO, G.**  
Conceptual Model of Unit-Mass Response Function for Nonpoint Source Pollutant Runoff, W85-05872 1811 5B

**BENEDEK, A.**  
Aluminum Hydrolysis Effects on Phosphorus Removal from Wastewaters, W85-03868 1808 5D

Precipitation of Phosphorus from Wastewater Through pH Variation in the Presence and Absence of Coagulants, W85-02438 1805 5D

**BENEDETTI, I.**  
Effects of Copper Pollution on Ictalurus nebulosus (Effetti Dell'Inquinamento Da Rame Su Ictalurus nebulosus), W85-02498 1805 5C

**BENEDETTI, L.**  
Effects of Copper Pollution on Ictalurus nebulosus (Effetti Dell'Inquinamento Da Rame Su Ictalurus nebulosus), W85-02498 1805 5C

**BENFIELD, L.**  
Effective Manganese Removal Using Lime as an Additive, W85-03619 1807 5D

Nickel Removal from a Synthetic Nickel-Plating Wastewater Using Sulfide and Carbonate for Precipitation and Coprecipitation, W85-03300 1807 5D

**BENELLI, F.**  
Official Start-up of the Oberaar-Grimmelpumped Power Station (Pumpspeicherwerk Oberaar-Grimmels offiziell in Betrieb), W85-01265 1803 8A

**BENES, P.**  
Migration and Speciation of Lead in a River System Heavily Polluted From a Smelter, W85-04484 1809 5B

**BENFIELD, E. F.**  
Shredder Abundance and Leaf Breakdown in an Appalachian Mountain Stream, W85-04899 1809 2H

**BENGIO, B. L.**  
Sediment Cap Stability Study, New York Dredged Material Dumpsite, W85-00053 1801 5E

**BENGTSON, R. L.**  
Comparative Performance of Two Runoff Models on Grassland Watersheds, W85-01183 1803 2A

Corn Silage Response to Subsurface Drainage on Alluvial Soil, W85-04738 1809 2G

Reducing Water Pollution with Subsurface Drainage, W85-03367 1807 5G

**BENGTSSON, A.**  
Fish Deformities and Pollution in Some Swedish Waters, W85-05466 1810 5C

## AUTHOR INDEX

BENGTSSON, B.-E.

BENGTSSON, B.-E.  
Fish Deformities and Pollution in Some Swedish Waters,  
W85-05466 1810 5C  
Toxicity of Effluents from a TiO<sub>2</sub> Plant to the Harpacicoid Copepod Nitocra spinipes Boeck,  
W85-04866 1809 5C

BENGTSSON, L.  
Interrelationship between Lule City Lakes,  
W85-01560 1803 2H

BENJAMIN, M.  
Role of Facultative Anaerobic Micro-organisms in Anaerobic Biodegradation of Chlorophenols,  
W85-07022 1812 5D

BENJAMIN, M. M.  
Studies of Anaerobic Treatment of Sulfite Process Wastes,  
W85-07008 1812 5D

BENJES, H. H.  
Small Town Conquers Wastewater Tribulations,  
W85-03276 1807 5D

BENKE, A. C.  
Quantification of Wood Habitat in Subtropical Coastal Plain Streams,  
W85-03601 1807 2H

BENMOUSSA, H.  
Use of Ozonation in Treatment of Sewage,  
W85-06213 1812 5D

BENNDRF, J.  
Manipulation of the Pelagic Food Web by Stocking with Predaceous Fishes,  
W85-02365 1805 4A

Problems of Application of the Ecological Model SALMO to Lakes and Reservoirs Having Various Trophic States,  
W85-01113 1802 2H

BENNER, J. R.  
Utilities Delivery for the Indian and Inuit Affairs Program,  
W85-04916 1809 6B

BENNER, R.  
Relative Contributions of Bacteria and Fungi to Rates of Degradation of Lignocellulosic Detritus in Salt-Marsh Sediments,  
W85-02138 1804 2L

BENNER, R. E.  
Urban Sediment and Stormwater Control: The Maryland Experience,  
W85-05951 1811 4D

BENNET, E. R.  
Ozone Enhanced Biological Activated Carbon in Denver, Colorado: A Pilot Plant Study,  
W85-05826 1810 5D

BENNETT, B.  
South African Estuaries and Their Importance to Fishes,  
W85-02837 1806 2L

BENNETT, C. S.  
Water Resources Data, South Carolina, Water Year 1982,  
W85-01937 1804 2E

BENNETT, D.  
Contamination and Effects in Freshwater Ditches Resulting from an Aerial Application of Cypermethrin,  
W85-06742 1812 5C

Fate and Biological Effects of Methyl Parathion in Outdoor Ponds and Laboratory Aquaria; I. Fate,  
W85-02945 1806 5B

BENNETT, D. G.  
Standard Hydrologic Exchange Format (SHEF),  
W85-03060 1806 7C

BENNETT, D. H.  
Generalized Model for Predicting Spawning Success of Fish in Reservoirs with Fluctuating Water Levels,  
W85-05878 1811 6G

BENNETT, D. W.  
Sanitary Significance of Increases in Fecal Coliform Counts Across a Catfish Aquaculture System,  
W85-05228 1810 5C

BENNETT, G. D.  
Representation of Multiaquifer Well Effects in Three-Dimensional Ground-Water Flow Simulation,  
W85-00316 1801 4B

BENNETT, G. F.  
Oil Spill Focuses Attention on the Problems of a Man-Made Recreational Lake,  
W85-01650 1804 5B

BENNETT, J. M.  
Drought and Flooding Effects on N<sub>2</sub> Fixation, Water Relations, and Diffusive Resistance of Soybean,  
W85-03359 1807 2I

BENNETT, J. R.  
Response of the Coastal Boundary Layer to Wind and Waves: Analysis of an Experiment in Lake Erie,  
W85-02960 1806 2H

BENNETT, J. T.  
210Pb-Derived Sediment Accumulation and Mixing Rates for the Greater Puget Sound Region,  
W85-06701 1812 2J

Mixing and Cycling of Uranium, Thorium and 210-Pb in Puget Sound Sediments,  
W85-03209 1806 2L

BENNETT, M. S.  
Optimal Design of Detention and Drainage Channel Systems,  
W85-04246 1808 4A

BENNETT, O. L.  
Effect of Sewage Sludge on Mobilization of Surface-Applied Calcium in a Greenville Soil,  
W85-06748 1812 5E

BENNETT, W. H.  
Electronic Discriminator to Eliminate the Problem of Horizontal Raindrop Drift,  
W85-05193 1810 7B

BENNINGER, B. A.  
Determining Extraneous Flows in Waste Water Systems,  
W85-04689 1809 8A

BENNOIT, H.  
Preliminary Treatment of Chemical Wastewater by Means of Sedimentation and Pressure-Release Flotation (Vorklarung von Chemieabwasser durch Sedimentation und Entspannungsflotation),  
W85-05983 1811 5D

BENOIT, G. R.  
Alfalfa Growth and Soil Oxygen Diffusion as Influenced by Depth to Water Table,  
W85-02877 1806 2G

BENSON, B. B.  
Concentration and Isotopic Fractionation of Oxygen Dissolved in Freshwater and Seawater in Equilibrium with the Atmosphere,  
W85-01334 1803 2K

BENSON-EVANS, K.  
Primary Productivity of the River Ely, South Wales, U.K.,  
W85-00996 1802 5C

Seasonal Variations of Dissolved Organic Matter in the River Ely, South Wales, U.K.,  
W85-05612 1810 5C

Studies on the Bottom Sediments and Epipelagic Algae of the River Ely, South Wales, U.K.,  
W85-05611 1810 5C

BENSON, R. D.  
Preliminary Assessment of the Hydrologic Characteristics of the James River in South Dakota,  
W85-00592 1802 2A

BENSON, S. M.  
Krafla Geothermal Field, Iceland; I. Analysis of Well Test Data,  
W85-03553 1807 2F

Theory of the Development of Geothermal Systems Charged by Vertical Faults,  
W85-00177 1801 2F

BENTLEY, C. B.  
Geohydrologic Data for Test Well USW G-4, Yucca Mountain Area, Nye County, Nevada,  
W85-02031 1804 7C

BENTLEY, C. R.  
Tabular Icebergs: Implications from Geological Studies of Ice Shelves,  
W85-00678 1802 2C

BENTON, B.  
Aquatic Parameters and Life History Observations of the Great Basin Spadefoot Toad in Utah,  
W85-06869 1812 2H

BENTZEN, E.  
Method for the Analysis of Total Nitrogen in Natural Waters,  
W85-00896 1802 5A

BENZ, L. C.  
Water-Table Contribution to Alfalfa Evapotranspiration and Yields in Sandy Soils,  
W85-04727 1809 2D

BERAN, S.  
Source of Deionized Water for High-Pressure Steam,  
W85-06061 1811 5F

BERCZ, J. P.  
Subchronic Toxicity of Chlorine Dioxide and Related Compounds in Drinking Water in the Nonhuman Primate,  
W85-01204 1803 5F

BERDICHEVSKII, G. YU.  
Characteristics of the State of Stress and Strain of the Gravity Dam at the Kurpasai Hydroelectric Station,  
W85-00427 1801 8A

BERENFELD, S. A.  
Modified Membrane-Filter Procedure for Concentration of Enteroviruses From Tap Water,  
W85-05054 1810 5A

BEREZNER, A. S.  
Possibility of Stabilizing Nonreturnable Water Consumption in the Basins of the Caspian and Azov Seas in the Remote Future,  
W85-04147 1808 3F

Preliminary Results of Calculating the Delivery of Water from the Onega Bay Reservoir to the Basin of the Caspian Sea in a Compensating Regime,  
W85-05155 1810 4A

BERG, R. D.  
Effect of Furrow Irrigation Erosion on Crop Productivity,  
W85-05192 1810 6G

BERGEISEN, G. H.  
Waterborne Outbreak of Hepatitis A in Meade County, Kentucky,  
W85-04658 1809 5C

AUTHOR INDEX

BEST, G. A.

**BERGER, M.**  
Atmospheric Deposition: Sample Handling, Storage, and Analytical Procedures for Chemical Characterization of Event-Based Samples in North Dakota, W85-03949 1808 5A

**BERGER, P.**  
Variation of Organic Matter Extracted from Particles along the Gironde Estuary (France), W85-04372 1808 2L

**BERGERON, M.**  
Boron Content in the Sediments from the St. Lawrence Estuary off Rimouski, Quebec, Canada, W85-01094 1802 5B

**BERGERSEN, E. P.**  
Colorado Cooperative Fishery Research Unit Studies of Twin Lakes, Colorado: 1980 Report of Findings, W85-04937 1809 5C

**BERGHEIM, A.**  
Estimated Pollution Loadings from Norwegian Fish Farms. I. Investigations 1978-1979, W85-00114 1801 5B

**BERGLIND, L.**  
Acute Toxicity and Chemical Characteristics of Moderately Polluted Runoff from Highways, W85-00745 1802 5C  
Effect of Highway Runoff on Lake Water Quality, W85-00747 1802 5B

**BERGLIND, R.**  
Acute Toxicity of Chromate, DDT, PCP, TPBS, and Zinc to *Daphnia magna* Cultured in Hard and Soft Water, W85-01092 1802 5C  
Effects of Lead on delta-Aminolevulinic Acid Dehydratase Activity, Growth, Hemoglobin Content, Reproduction in *Daphnia magna*, W85-06745 1812 5C

**BERGMAN, H. L.**  
Constituent Bioconcentration in Rainbow Trout Exposed to a Complex Chemical Mixture, W85-02416 1805 5B

**BERGMANN, F.**  
Integration of a Reverse Osmosis Installation in the Fully Automated Operation of a Rural Water Supply Company, W85-00253 1801 5F

**BERGQUIST, S. E.**  
Nonpoint Pollution Control: The Wisconsin Experience, W85-05947 1811 5G

**BERGRUD, F. G.**  
Saline Cooling Tower Water for Irrigation in Minnesota: I. Crop and Soil Effects, W85-06615 1812 3C  
Saline Cooling Tower Water for Irrigation in Minnesota: II. Drainage Water Composition, Leaching Fraction, and Effect on Aquifer Quality, W85-06616 1812 3C

**BERGSTROM, B.**  
Toxicity of Effluents from a TiO<sub>2</sub> Plant to the Harpacticoid Copepod *Nitocra spinipes* Boeck, W85-04866 1809 5C

**BERGSTROM, E.**  
Influence of Surfactants on Gill Physiology and Cadmium Uptake in Perfused Rainbow Trout Gills, W85-06741 1812 5C

**BERHIN, F.**  
Cadmium Toxicity and Accumulation by Tetrahymena pyriformis in Contaminated River Waters, W85-02748 1806 5C

**BERISH, C. W.**  
Precipitation Chemistry at Turrialba, Costa Rica, W85-03568 1807 2K

**BERK, J. A.**  
Computer Program for a Trilinear Diagram Plot and Analysis of Water Mixing Systems, W85-00360 1801 5A

**BERK, S. G.**  
Indirect Effects of Chlorinated Wastewater on Bacteriovorous Protozoa, W85-00908 1802 5D

**BERKAS, W. R.**  
Suspended-Sediment Data in the Salt River Basin, Missouri, W85-00859 1802 7C

**BERLIN, V. V.**  
Mathematical Modeling of Hydraulic Regimes in the Transition Between the Surge Tank and Conduits of a Hydroelectric Station, W85-04419 1809 8B

**BERLOIN, V. V.**  
Optimization of Design Parameters of Complex Surge Tanks, W85-04426 1809 8A

**BERMAN, T.**  
Relative Contributions of Net and Nanno Phytoplankton to Primary Production in Lake Kinneret (Israel), W85-00868 1802 2H

**BERMAN, Y.A. R.**  
Outline of an Inclined Head Wall of a Dewatering Outlet, W85-00483 1801 8B

**BERNARD, R.**  
Surface Temperature Variability Patterns Within Irrigated Fields, W85-06688 1812 3F

**BERNARDIN, F. E. JR.**  
Waste Hauler/Disposer Meets Pretreatment Guidelines, W85-05260 1810 5F

**BERNAT, M.**  
Behaviour of Metallic and Radioactive Elements in Lagoonal Sediments: The Example of the Canet-Si Nazaire Pond (Mediterranean Coast), W85-00914 1802 2L

**BERNDT, C. L.**  
Bench-Scale Treatment of Lurgi Gasifier and H-Coal Wastewaters by the PACT System, W85-04037 1808 5D

**PACT/Wet Air Regeneration of an Organic Chemical Waste,** W85-05225 1810 5D

**BERNHARDT, H.**  
Investigations on the Influence of Algogenic Organic Matter on Flocculation and Flocseparation (Untersuchungen zur Beeinflussung der Flockung und Flockenabtrennung durch algenartige organische Substanzen), W85-03451 1810 5F

**BERNHAUER, W.**  
Automation on Run-of-River Power Plants on the Inn (Automatisierung von Laufwasserkraftwerken am Inn), W85-01258 1803 8A

**BERRY, C. R. JR.**  
Toxicity of the Herbicides Diquat and Endothall to Goldfish, W85-00909 1802 5C

**BERRY, S. R.**  
Designing Gates for Small Hydro Schemes, W85-06130 1811 8C

**BERTHOU, F.**  
Determination of Polycyclic Hydrocarbons in Scallops (*Pecten maximus*) by UV Fluorescence and HPLC Combined with UV and Fluorescence Detectors, W85-04474 1809 5B

**BERTHOUEX, P. M.**  
Environmental Intervention Analysis: Wisconsin's Ban on Phosphate Detergents, W85-06228 1812 5D

**BERTOLDI, G. L.**  
Data for Ground-Water Test Hole Near Butte City, Central Valley Aquifer Project, California, W85-01941 1804 7C  
Data for Ground-Water Test Hole near Nicolaus, Central Valley Aquifer Project, California, W85-01929 1804 7C

**BERTOLI DE POMAR, H.**  
Limnological Studies in a Cross-Section of the Middle Reach of Parana River, III: Solid Components Transported in Suspension (Estudios Limnologicos en una Sección Transversal del Tramo Medio del Rio Parana, III: Componentes Solidos Transportados en Suspensión), W85-05174 1810 2J

**BERTRAND, J. C.**  
Effects of Petroleum Hydrocarbons on the Cytochrome P450 Content of the Mollusc Bivalve *Mytilus galloprovincialis*, W85-01367 1803 5C

**BERUCHASHVILI, G. A.**  
Risk of Damage and Failure of Earth Dams, W85-04430 1809 8D

**BESBES, M.**  
From Infiltration to Recharge: Use of a Parametric Transfer Function, W85-03754 1807 2A

**BESCHTA, R. L.**  
Channel Changes Following Storm-Induced Hillslope Erosion in the Upper Kowai Basin, Torlesse Range, New Zealand, W85-02554 1805 2J  
Influences of Increased Sand Delivery on the Morphology of Sand and Gravel Channels, W85-02979 1806 2J

**BERNARDIN, F. E. JR.**  
Long-Term Changes in Channel Widths of the Kowai River, Torlesse Range, New Zealand, W85-02555 1805 2J  
Moving Averages and Cyclic Patterns, W85-00182 1801 2B

**BEST, A.**  
Biological Phosphorus and Nitrogen Removal Via the A/O Process: Recent Experience in The United States and United Kingdom, W85-03644 1807 5D

**BEST, A. G.**  
A/O Process - Biological Treatment with Nutrient Removal, W85-04594 1809 5D

**BEST, D. G.**  
Determination of COD by a Mercury-Free Open-Tube Method, W85-04467 1809 5A

**BEST, E. P. H.**  
Macrophytes in the Loosdrecht Lakes: A Story of Their Decline in the Course of Eutrophication, W85-04549 1809 5C

**BEST, G. A.**  
Treatment of Ferruginous Ground Water from an Abandoned Colliery, W85-04596 1809 5D

## AUTHOR INDEX

**BEST, G. R.**

BEST, G. R.  
Inexpensive Weir and Proportional Sampler for  
Miniature Watershed Ecosystems,  
W85-02990 1806 7B

BEST, H. J.  
Need for Chemical Phosphate Removal,  
W85-04821 1809 5D

Setting of Water Quality Standards - South African  
Experience and Viewpoints,  
W85-01400 1803 6E

BEST, J. L.  
Separation Zone at Open-Channel Junctions,  
W85-03778 1808 8B

BEST, M. G.  
Ecology of *Legionella pneumophila* within  
Water Distribution Systems,  
W85-04264 1808 5F

BETTANDORFF, J. M.  
Water Resources Data, Kentucky, Water Year  
1982,  
W85-01923 1804 2E

BETTESS, R.  
Initiation of Sediment Transport in Gravel  
Streams,  
W85-01536 1803 2J

BEUKES, D. J.  
Apple Root Distribution as Effected by Irrigation  
at Different Soil Water Levels on Two Soil  
Types,  
W85-06205 1812 3F

BEUMER, J. P.  
Lerderberg River Fish-Ladder,  
W85-02358 1805 8I

BEVANS, H. E.  
Hydrologic Responses of Stream's to Mining of  
the Mulberry Coal Reserves in Eastern Kansas,  
W85-01782 1804 2E

Physical and Hydrologic Environments of the  
Mulberry Coal Reserves in Eastern Kansas,  
W85-00595 1802 6G

BEVEN, K.  
Infiltration into a Class of Vertically Non-Uniform  
Soils,  
W85-05006 1810 2G

Subsurface Stormflow: An Analysis of Response  
Times,  
W85-00695 1802 2F

BEVERIDGE, A.  
Influence of Surfactants on the Determination of  
Cu, Pb, and Cd by ASV,  
W85-02429 1805 5A

BEVINS, R.  
Destruction of Pathogens and Parasites in  
Sewage Sludge by Chemical Means,  
W85-04592 1809 5E

BEWTRA, J. K.  
Breakthrough of Brine through Compacted Fine  
Grained Soils,  
W85-05571 1810 5G

BEZENSHEK, E.  
Removal of Phenol from Waste Water by  
Double Emulsion Membranes and Creeping  
Film Pertraction,  
W85-05036 1810 5D

BEZINGE, A.  
Findelen Glacier; Rapid Advance and Construction  
of a New Subglacial Water Catchment  
(Glacier de Findelen; Avance Rapide et Con-  
struction d'un Nouveau Captage Sous-glaciaire),  
W85-01909 1810 2C

BHADRAM, C. V. V.  
Study of Major Rainstorms of the Teesta Basin,  
W85-05097 1810 2B

BHARADWAJ, J.  
Influence of Noncondensables on Modern Ther-  
mal Desalination,  
W85-01226 1803 3A

BHARGAVA, D. S.  
Effect of the Ratio of Reactor Diameter to Parti-  
cle Size on the Performance of a Moving Media  
Reactor,  
W85-07109 1812 5D

Variations in Quality in the Ganges,  
W85-05836 1810 5G

Water Quality Variations and Control Technolo-  
gy of Yamuna River,  
W85-06171 1811 5C

BHARGAVA, P. N.  
Statistical Study on Incidence of Drought in  
Relation to Agricultural Production,  
W85-05089 1810 2B

BHARMVANIJ, S.  
Organic Complexation of Zinc in Estuarine In-  
terstitial and Surface Water Samples,  
W85-02789 1806 2L

BHATIA, B.  
Comparison of Seasonal and Diurnal Patterns of  
Some Physico-Chemical Parameters of the Open  
and Closed Parts of Loktak Lake, Manipur,  
India,  
W85-05444 1810 2H

BHATNAGAR, R. M.  
Simultaneous Determination of Zinc and Chro-  
mate in Cooling Water by Differential Pulse  
Polarography,  
W85-04624 1809 5A

BHATNAGAR, V. K.  
Reaction of Fertilizer and Liquid Manure Phos-  
phorus with Soil Aggregates and Sediment  
Phosphorus Enrichment,  
W85-06722 1812 5E

BHATT, B. S.  
Stokes and Rayleigh Layers in Presence of Nat-  
urally Permeable Boundaries,  
W85-07099 1812 2E

BHATT, D. J.  
Effect of the Ratio of Reactor Diameter to Parti-  
cle Size on the Performance of a Moving Media  
Reactor,  
W85-07109 1812 5D

BHATT, N. R.  
Impact of Conservation on Rates and Operating  
Costs,  
W85-06031 1811 6C

BHATT, S. D.  
Ecology of the Limnofauna in the River Kosi of  
the Kumau Himalaya (Uttar Pradesh),  
W85-06011 1811 2H

BHATTACHARYYA, D.  
Reverse-Osmosis Membrane for Testing Coal-  
Liquefaction Wastewater,  
W85-00284 1801 5D

BHATTARAI, K. K.  
Dispersion Model for Waste Stabilization Ponds,  
W85-04966 1809 5D

BHATTI, M. I.  
Rebuilding Water Supply Infrastructure,  
W85-07058 1812 5F

BHAVE, P. R.  
Optimal Expansion of Water Distribution Sys-  
tems,  
W85-06020 1811 5F

BHIMASANKARAM, V. L. S.  
Evaluation of Aquifer Behavior in a Typical  
Crystalline Basement,  
W85-00334 1801 2F

BHUJANGA RAO, D. V. S.  
Modification of Irrigation Requirement of  
Wheat Through Mulching and Foliar Appli-  
cation of Transpiration Suppressants,  
W85-05923 1811 3F

BIANCHI, A.  
Bacteriological Study of Geothermal Spring-  
Waters Dating from Dogger and Tria Periods  
in the 'Bassin Parisien' (Etude Bacteriologique  
des eaux geothermales du Dogger et du Tria du  
Bassin Parisien),  
W85-03111 1806 2F

BIANCHI, M.  
Biotaurbation and Microbial Activity,  
W85-04704 1809 2L

BIANCHINE, J. R.  
Controlled Clinical Evaluations of Chlorine Di-  
oxide, Chlorite and Chlorate in Man,  
W85-01205 1803 5F

BIAS, R.  
Bioaccumulation and Partitioning of Cadmium  
within the Freshwater Mussel *Dreissena poly-  
morphe* Pallas,  
W85-06884 1812 5B

BICKLEY, D. T.  
Optimally Controlled Hydrodynamics for Tidal  
Power in the Severn Estuary,  
W85-06560 1812 8B

BIDDICK, C. J.  
Effect of Baquacil on Pathogenic Free-Living  
Amoebae (PFLA) 3. Increased Baquacil Con-  
centration and Exposure Time in the Presence of  
Bacteria,  
W85-02506 1805 5F

BIDLEMAN, T. F.  
Natural Organics as Fluorescent Tracers of  
River-Sea Mixing,  
W85-00667 1802 2L

BIEDERBECK, V. O.  
Salinity and Alfalfa Yield under Effluent Irriga-  
tion in Southwestern Saskatchewan,  
W85-02802 1806 3C

BIELORAI, H.  
Effect of High Sodium Irrigation Water on Soil  
Salinity and Yield of Mature Grapefruit Or-  
chard,  
W85-05935 1811 3C

BIENFANG, P. K.  
Size Structure and Sedimentation of Biogenic  
Microparticulates in a Subarctic Ecosystem,  
W85-03244 1807 2J

BIERHALS, S.  
Observations from the Test Operation of an Ion-  
exchange Facility for Nitrate Removal in Drink-  
ing-water Treatment (Erfahrungen aus dem Er-  
probungsbetrieb einer Ionenaustauscheranlage  
zur Nitratelimination in der Trinkwasseraufber-  
eitung),  
W85-01974 1804 5F

BIERL, R.  
Spatial and Temporal Concentration Gradients  
of PAH (Fluoranthen, Benzo(a)pyrene),  
gamma-BHC and 2,4-D in Samples of Soil, Soil  
Water and Ground Water in an Agricultural  
Research Area,  
W85-03289 1807 5B

BIESEL, F.  
Pneumatic Protection of Large Dams Against  
Hydrodynamic Pressure Fluctuation of Seismic  
Origin (Protection pneumatique des barrages  
contre les surpressions hydrodynamiques d'ori-  
gine sismique),  
W85-02356 1805 8B

BIESIADKA, E.  
Occurrence of Water Mites (Hydracarina) in the  
River Wieprz Polluted with Domestic-Industry  
Sewage,  
W85-00224 1801 5C

AUTHOR INDEX

BISHOP, S. L.

**BIGGAR, J. W.**  
Equivalence of Two Conceptual Models for Describing Ion Exchange During Transport Through an Aggregated Oxisol, W85-02368 1805 2G

**BIGGLEY, W. H.**  
Catastrophic Anoxia in the Chesapeake Bay in 1984, W85-06159 1811 2L

**BIGGS, B. J. F.**  
Macroinvertebrates Associated with Various Aquatic Macrophytes in the Backwaters and Lakes of the Upper Clutha Valley, New Zealand, W85-01630 1803 2H

**BIGGS, R. B.**  
Phosphorus Distribution in Sediments of the Delaware River Estuary, W85-01843 1804 2L

**BIGHAM, J. M.**  
Effects of Phosphate Fertilizer Applications and Chemistry-Mineralogy of the Iron Oxide System on Phosphate Adsorption-Desorption by Stream Sediments, W85-01794 1804 5B

**BIGLEY, D. V.**  
Distribution of *Pseudomonas aeruginosa* in a Riverine Ecosystem, W85-00100 1801 5B

**BIHARI, N.**  
DNA Damage by Benzo(a)pyrene in the Liver of Mosquito Fish *Gambusia affinis*, W85-06550 1812 5C

**BILBY, R. E.**  
Characteristics and Frequency of Cool-water Areas in a Western Washington Stream, W85-04315 1808 2H

Removal of Woody Debris May Affect Stream Channel Stability, W85-02800 1806 4D

**BILKERT, J. N.**  
Sorption and Leaching of Three Nonfumigant Nematicides in Soils, W85-06426 1812 5B

**BILLARD, R.**  
Effect of Metals and Cyanide on Fertilization in Rainbow Trout (*Salmo gairdneri*), W85-04976 1810 5C

**BILLECK, B. N.**  
Bioaccumulation of Some Forestry Pesticides in Fish and Aquatic Plants, W85-06772 1812 5C

**BILLEN, G.**  
Annual Cycle of Gross Primary Production and Respiration in the Viroin River (Belgium), W85-00413 1801 2H

Changes in the Quality of River Oise Water During Retention in the Storage Basin at Mery (France) (Evolution de la Qualite de la Riviere Oise lors de sa Retention dans le Bassin de 'Storage' de Mery (France)), W85-05635 1810 2H

Primary Production and its Fate in the Storage Basin of Mery-sur-Oise, W85-05634 1810 2H

**BILLICA, J. A.**  
Two-Phase Numerical Model for Prediction of Infiltration: Applications to a Semi-Infinite Soil Column, W85-06515 1812 2G

**BILLINGS, W. D.**  
Growth of Alpine Plants Under Controlled Drought, W85-00235 1801 2I

Influence of Water Table and Atmospheric CO<sub>2</sub> Concentration on the Carbon Balance of Arctic Tundra, W85-02857 1806 2G

**BILLS, N. L.**  
Improved Soil Erosion Classification for Conservation Policy, W85-03351 1807 2J

**BILLS, T. D.**  
Factors Affecting the Efficiency of Clinoptilite for Removing Ammonia from Water, W85-01583 1803 5D

**BILODEAU, P.**  
Effects of an *in situ* Artificial Acidification on the Lacustrine Phytoplankton and Zooplankton (Effets d'une Acidification Artificielle *in situ* sur le Phytoplancton et le Zooplancton (Lacustre)), W85-02636 1805 5C

**BILYARD, G. R.**  
Effects of Sewage Pollution on Coral-Reef Communities, W85-05714 1810 5C

**BINDER, H.**  
Determination of Diesel Fuel as Contamination in Water (Die Bestimmung von Dieselol als Verunreinigung im Wasser), W85-01056 1802 5A

**BINDER, R.**  
Wastewater Purification in the Hide Glue Industry (Abwasserreinigung bei der Hautleimindustrie), W85-05142 1810 5D

**BINDSCHADLER, R.**  
Numerical Model of Temperate Glacier Flow Applied to the Quiescent Phase of a Surge-Type Glacier, W85-00673 1802 2C

**BINDSCHADLER, R. A.**  
Time-Dependent Ice Sheet Model: Preliminary Results, W85-00518 1802 2C

**BINEY, C. A.**  
Chemical Survey of the Volta Estuary, W85-04854 1809 2L

**BINGHAM, C. R.**  
Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 4: Diel Periodicity of Benthic Macroinvertebrate Drift, W85-06995 1812 2A

**BINGHAM, D. R.**  
Nitrogen Cycle and Algal Growth Modeling, W85-03335 1807 5B

**BINGHAM, F. T.**  
Water, Salinity, and Nitrate Relations of a Citrus Watershed Under Drip, Furrow, and Sprinkler Irrigation, W85-04346 1808 3F

**BINO, M. J.**  
Adsorption of Various Pollutants from Aqueous Solutions on to Activated Carbon, W85-06736 1812 5D

**BINSBERGEN, M.**  
Transportation of Water, Particulate and Dissolved Organic and Inorganic Matter between a Salt Marsh and the Ems-Dollard Estuary, The Netherlands, W85-02655 1805 2L

**BIOT, M. A.**  
Variational-Lagrangian Analysis of Aquifers with Application to Artesian Wells, W85-05503 1810 2F

**BIRCH, F. S.**  
Bedrock Depth Estimates from Ground Magnetometer Profiles, W85-01530 1803 2F

**BIRCHFIELD, G. E.**  
Stability of Sheet Water Flow under a Glacier, W85-03341 1807 2C

**BIRELEV, I. E.**  
Multivariate Analysis of Species Composition of Shore-Zone Fish Assemblages Found in Long Island Sound, W85-02997 1806 5A

**BIRGE, W. J.**  
Effects of Cadmium-Enriched Sediment on Fish and Amphibian Embryo-Larval Stages, W85-02701 1806 5C

**BIRK, K. F.**  
Water Protection Problems in Estonia: Hygienic Aspects, W85-04113 1808 5G

**BIRKBECK, R. E.**  
Case History of a City's Successful Land Application Program of Liquid Sludge on Sod, W85-05388 1810 5E

**BIRKELAND, C.**  
Terrestrial Runoff as a Cause of Outbreaks of *Acanthaster planci* (Echinoderma: Asterioidea), W85-01893 1804 5C

**BIRKHOLZ, R.**  
Results of Rational Water Use in the District of Dresden (Ergebnisse der rationellen Wasserverwendung im Bezirk Dresden), W85-03523 1807 3E

**BIRMINGHAM, B. C.**  
Persistence and Fate of 2,4-D Butoxyethanol Ester in Artificial Ponds, W85-06621 1812 5B

**BIRSKAYA, O. YU.**  
Effect of Breaking Waves on Structures with an Incomplete Vertical Profile, W85-00474 1801 8B

**BISCHOF, R.**  
Tucurui, Gigantic Hydro Power Plant in Brazil (Tucurui: Gigantische Wasserkraftanlage im Amazonas-Urwald), W85-01362 1803 8A

**BISHARA, N. F.**  
Evaluation of Tilapia Spp. in Lake Manzalah as Pond Fishes, (Procjena Tilapia Spp. U Jezera Manzalah Kao Ribnjacarskih Vrsta), W85-06424 1812 6G

Problem of Prawn Fisheries in Egypt, W85-03235 1807 5C

**BISHOP, A. B.**  
Development of a Comprehensive Upper Colorado River Basin Model for Analyzing Energy Development Impacts, W85-06323 1812 4A

**BISHOP, D. G.**  
Modern Sedimentation at Falls Dam, Upper Manuherikia River, Central Otago, New Zealand, W85-03488 1807 2J

**BISHOP, K.**  
Identification of Asbestos and Glass Fibers in Municipal Sewage Sludges, W85-05008 1810 5A

**BISHOP, M. M.**  
Declining-Rate Filters: Regulatory Aspects and Operating Results, W85-04407 1808 5F

**BISHOP, P. L.**  
Treatment of Electroless Copper Plating Wastes, W85-05431 1810 5D

**BISHOP, S. L.**  
Considerations Involved in the Reactivation of an Existing Water Supply, W85-07056 1812 5F

## AUTHOR INDEX

**BISHOP, S. L.**

Upflow Clarification of New England Surface Water Supplies, W85-04018	1808 5F	Effect of Acid Precipitation on Soil Microbial Activity: I. Soil Core Studies, W85-06618	1812 5C	Stripping of Organic Chemicals in Biological Treatment Processes, W85-02767	1806 5D
<b>BISHT, Y.</b> Ecology of the Limnofauna in the River Kosi of the Kumaun Himalaya (Uttar Pradesh), W85-06011	1811 2H	Effect of Acid Precipitation on Soil Microbial Activity: II. Field Studies, W85-06619	1812 5C	<b>BLACKBURN, W. H.</b> Evaluation of the Hydrologic Soil Groups as Used in the SCS Runoff Method on Rangelands, W85-01384	1803 2G
<b>BISOGNI, C. A.</b> Nitrate Contamination: Public Awareness, W85-04828	1809 5F	<b>BIUSO, S.</b> Evaluating Dewatering Alternatives, W85-02992	1806 5E	<b>BLACKKEY, F. E.</b> Water Resources Data, New Hampshire and Vermont, Water Year 1982, W85-01933	1804 2E
<b>BISOGNI, J. J.</b> Weak Acid/Base Systems in Dilute Acidified Lakes and Streams of the Adirondack Region of New York State, W85-05316	1810 2H	Evaluating Enclosed Composting Systems, W85-02299	1805 5E	<b>BLACKIE, J. R.</b> Nutrient Inputs and Outputs in a Forested and Grassland Catchment at Plynlimon, Mid Wales, W85-06278	1812 5B
<b>BISOGNI, J. J. JR.</b> Errors in Gran Function Analysis of Titration Data for Dilute Acidified Water, W85-06231	1812 5A	<b>BJYANOV, G. F.</b> Prospects of Improving Methods of Constructing Frozen-Type Earth Dams, W85-00457	1801 8D	<b>BLACKMER, W. H.</b> Program Management Keeps Anchorage Water Project on Schedule, W85-05486	1810 6A
<b>BISSEL, V. C.</b> Standard Hydrologic Exchange Format (SHEF), W85-03060	1806 7C	<b>BJORK-RAMBERG, S.</b> Uptake of Phosphate and Inorganic Nitrogen by a Sediment-Algal System in a Subarctic Lake, W85-06415	1812 2H	<b>BLACKSTOCK, J.</b> Environmental and Biochemical Investigation of Some Effects of Organic Pollution in Inner Oslofjord, Norway, W85-01896	1804 5C
<b>BISSON, M.</b> Accumulation of Copper and Zinc in the Yellow Water Lily, <i>Nuphar variegatum</i> : Relationships to Metal Partitioning in the Adjacent Lake Sediments, W85-04837	1809 5B	<b>BJORNLUND, I.</b> Mercury in Swedish Lakes - Its Regional Distribution and Causes, W85-00087	1801 5B	<b>BLACKWOOD, I.</b> Black Acidic Snow in the Remote Scottish Highlands, W85-03127	1806 5B
Physical and Chemical Evolution of Snowpacks on the Canadian Shield (Winter 1979-1980), W85-05659	1810 2C	<b>BJORNSON, H. S.</b> Biological Health Risks Associated with the Composting of Wastewater Treatment Plant Sludge, W85-04291	1808 5E	<b>BLAIM, H.</b> Antibacterial Effects on Predominant Taxa in the Activated Sludge System of a Chemical Combine (Die Hemmstoffresistenz dominierender Bakteriengruppen in der Belebtschlamm-Anlage eines Chemiewerks), W85-02738	1806 5D
Relationships between the Partitioning of Trace Metals in Sediments and Their Accumulation in the Tissues of the Freshwater Mollusc <i>Elliptio complanata</i> in a Mining Area, W85-03308	1807 5B	<b>BJURNSTAD, H. E.</b> Particle Discrimination Effects in the Determination of Trace Metals in Natural Fresh Waters, W85-06252	1812 5A	<b>BLAIR, R. E. JR.</b> Pump Station Design: The Benefits of Computer Modeling, W85-01905	1804 8C
<b>BISWAS, B.</b> Study of Major Rainstorms of the Teesta Basin, W85-05097	1810 2B	<b>BLABER, S. J. M.</b> South African Estuaries and Their Importance to Fishes, W85-02837	1806 2L	<b>BLAIR, S. K.</b> Performance of Low Pressure Center Pivot Systems, W85-06083	1811 3F
<b>BISWAS, B. C.</b> Application of Markov Chain Model in Determining Drought Proneness, W85-05092	1810 2B	<b>BLACHLY, T. R.</b> Study of the Biodegradability of Residual COD, W85-07054	1812 5D	<b>BLAIR, W. R.</b> Accumulation and Fate of Tri-n-butyltin Cation in Estuarine Bacteria, W85-02185	1805 5B
Estimation of Weekly Potential Evapotranspiration, W85-05099	1810 2D	<b>BLACK, A. S.</b> Soil Structure Effects and Leaching of Sodium Following Sodium Chloride Fertiliser Applications, W85-06184	1812 2K	<b>BLAISE, C.</b> Detection with the Aid of a Bioassay ( <i>Selenastrum capricornutum</i> ) of the Effects of a Mine Waste on the Aquatic Environment: Toxicity or Enrichment of Essential Substances (Detection à l'aide d'un bio-essai ( <i>Selenastrum capricornutum</i> ) des répercussions d'un rejet minier sur l'environnement aquatique: toxicité ou enrichissement en substance essentielle), W85-02480	1805 2H
Quantification of Drought and Crop Potential, W85-05078	1810 2B	<b>BLACK, J. A.</b> Effects of Cadmium-Enriched Sediment on Fish and Amphibian Embryo-Larval Stages, W85-02701	1806 5C	<b>BLAKAR, I. A.</b> Evaluation of Acidification Based on Former Colorimetric Determination of pH: The Effect of Indicators on pH in Poorly Buffered Water, W85-04530	1809 5A
<b>BISWAS, H.</b> Method for Establishing Site-Specific Stream Design Flows for Wasteload Allocations, W85-03336	1807 5D	<b>BLACK, J. J.</b> Environmental Implications of Neoplasia in Great Lakes Fish, W85-05900	1811 5C	<b>BLAKE, T. J.</b> Stomatal Control of Water Use Efficiency in Poplar Clones and Hybrids, W85-01646	1804 2I
<b>BISZ-KONARZEWSKA, A.</b> Removal of Nitrogen from Industrial Wastewaters with the Use of Algal Rotating Disks and Denitrification Packed Bed Reactor, W85-02425	1805 5D	<b>BLACK, R. A.</b> Water Relations of <i>Quercus palustris</i> : Field Measurements on an Experimentally Flooded Stand, W85-02814	1806 2I	<b>BLANC, F. C.</b> Treatment of Beef Slaughtering and Processing Wastewaters using Rotating Biological Contactors, W85-05409	1810 5D
<b>BITSCH, B.</b> Steady Winter Circulations in Lakes Constance and Kinneret Driven by Wind and Main Tributaries, W85-05727	1810 2H	<b>BLACK, S. A.</b> Manual for Land Application of Treated Municipal Wastewater and Sludge, W85-04213	1808 5D	<b>BLANCHARD, B. J.</b> Case Study: Estimating Antecedent Precipitation Index from Heat Capacity Mapping Mission Day Thermal Infrared Data, W85-00689	1802 7B
<b>BITTER, J. G. A.</b> Effect of Crystallinity and Swelling on the Permeability and Selectivity of Polymer Membranes, W85-02552	1805 3A	<b>BLACKBURN, J. H.</b> Chironomidae in a Pennine Stream System Receiving Mine Drainage and Organic Enrichment, W85-05868	1811 5C		
<b>BITTON, G.</b> Comparison of Selective Media for Assay of Coliphages in Sewage Effluent and Lake Water, W85-04258	1808 5A	<b>BLACKBURN, J. W.</b> Predictive Assessment of Priority Pollutant Bio-Oxidation Kinetics in Activated Sludge, W85-02768	1806 5D		

AUTHOR INDEX

BODALY, R. A.

**Effects of Corn Stalk Orientation and Water Content on Passive Microwave Sensing of Soil Moisture, W85-0302** 1807 7B

**BLANCHARD, G.**  
Removal of Heavy Metals from Waters by Means of Natural Zeolites, W85-04297 1808 5F

**BLANCHARD, R. D.**  
Use of a Permeation Sampler for Determination of Volatile Priority Pollutants, W85-04960 1809 5A

**BLANCHER, E. C. II.**  
Zooplankton-Trophic State Relationships in Some North and Central Florida Lakes, W85-01022 1802 2H

**BLANCHET, R.**  
Agronomic Aspects of Drought Resistance of the Sunflower (*Helianthus annuus* L.) (Aspects Agronomiques de la Resistance a la Secheresse chez le Tournesol (*Helianthus annuus* L.)), W85-02334 1805 2I

**BLANCK, H.**  
Species-Dependent Variation in Algal Sensitivity to Chemical Compounds, W85-02698 1806 5A

**BLANNON, J. C.**  
Bacterial Colonization of Point-of-Use Water Treatment Devices, W85-04834 1809 5F

**BLANUSA, M.**  
Effect of Temperature on the Sorption of Lead and Cadmium by Ion Exchange, W85-03415 1807 5D

**BLASER, M. J.**  
Role of Stagnation and Obstruction of Water Flow in Isolation of *Legionella Pneumophila* from Hospital Plumbing, W85-03432 1807 5B

**BLASIG, H.**  
Studies on the Drainage Behavior of Quaternary Gravel and Sand Mixtures (Untersuchungen Zum Entwässerungsverhalten Von Quartären Kies- und Sandgemischen), W85-01055 1802 2G

**BLASZCZYK, M.**  
Removal of Nitrogen from Industrial Wastewaters with the Use of Algal Rotating Disks and Denitrification Packed Bed Reactor, W85-02425 1805 5D

**BLATOV, A. S.**  
Investigation of Water Circulation in the Northwestern Black Sea and Its Relation to Human Impact on River Runoff, W85-04118 1808 2E

**BLAZKA, P.**  
Organic Carbon in a Eutrophic Fishpond, W85-02566 1805 2H

**BLECH, M. F.**  
Study of Mutagenic Activity in Water in a Progressive Ozonation Unit (Etude du Caractère Mutagène de l'Eau dans une Filière de Production à Ozonation Estagée), W85-01987 1804 5F

**BLEM, C. R.**  
Annual Cycle of Kepone Residue and Lipid Content of the Estuarine Clam, *Rangia cuneata*, W85-01844 1804 5C

**BLEVINS, R. D.**  
Gross Alpha and Beta Radioactivities Associated with Aquatic Environments of Upper-East Tennessee Impacted by Industrial and Mining Activities, W85-04367 1808 5B

**BLINOV, I. F.**  
Experience in Operating the Structures of the Mansour Eddahbi Hydropower Development, W85-00502 1801 4A

**BLISS, J. C.**  
Reliability of Packer Tests for Estimating the Hydraulic Conductivity of Aquifers, W85-03773 1808 2F

**BLISS, L. C.**  
Phenology and Water Relations of Three Plant Life Forms in a Dry Tree-Line Meadow, W85-01892 1804 2I

Variation in Substrate Chemistry along Microtopographical and Water-Chemistry Gradients in Peatlands, W85-00949 1802 2L

**BLISS, P. J.**  
Influence of Organic Shock Loads on the Performance of an Anaerobic Fluidized Bed System, W85-05558 1810 5D

**BLOCK, C. J.**  
Behavioral Thermoregulation of Largemouth Bass, *Micropterus salmoides*, and Bluegill, *Lepomis macrochirus*, in a Nuclear Reactor Cooling Reservoir, W85-01495 1803 5C

**BLOCK, J. C.**  
Use of Historical Data for Estimating the Number of Samples Required for Monitoring Drinking Water, W85-06703 1812 5F

**BLOCK, R. M.**  
Health and Environmental Aspects of Setting Cleanup Criteria, W85-06452 1812 5G

**BLODGETT, J. C.**  
Effect of Bridge Piers on Streamflow and Channel Geometry, W85-06110 1811 2E

**BLOKHRA, R. L.**  
Transport Studies of Multielectrolyte Solutions Across a Sintered Disc Impregnated with Cellulose Acetate, W85-05035 1810 3A

**BLOMMAERT, W.**  
Presence of Tin and Tungsten in Thermal Waters Connected with Granites of Some Selected Regions in Europe, W85-05857 1811 2F

**BLOMQUIST, B. W.**  
Organic and Inorganic Mercury Species in the Ft. Lewis Solvent Refined Coal Pilot Plant Water Treatment Process, W85-01798 1804 5D

**BLONDIN, G. A.**  
Vegetable Processing Wasteflows: Liability or Asset, W85-05392 1810 5E

**BLOOM, J. L.**  
Mineralogical Changes Along the Freshwater/Saltwater Interface of a Modern Aquifer, W85-06700 1812 2F

**BLOOM, K. S.**  
Effects of Temperature on the Locomotor Activity of the Bluegill Sunfish, *Lepomis macrochirus*, W85-06487 1812 5C

**BLOOMFIELD, J. A.**  
Lake Acidification and the Biology of Adirondack Lakes: I. Rotifer Communities, W85-02646 1805 5C

**BLOUIN, A. C.**  
Comparison of Plankton-Water Chemistry Relationships in Three Acid Stressed Lakes in Nova Scotia, Canada, W85-04911 1809 2H

**BLOXAM, R. M.**  
Influence of Storm Characteristics on Sulfate in Precipitation, W85-04010 1808 2K

**BLOYD, R. M.**  
Assessment of Cumulative Impacts of Coal Mining on the Hydrology in Part of the Powder River Structural Basin, Wyoming—A Progress Report, W85-00847 1802 4C

**BLUMBERG, M. S.**  
Effect of Various Hydrologic Parameters on the Quality of Stormwater Runoff from a West Lafayette, Indiana Urban Watershed, W85-01822 1804 5B

**BLUMHAGEN, K.**  
Uptake of Zn, Cd, and Hg by Fish in the Presence of Competing Compartments, W85-00891 1802 5B

**BNINSKA, M.**  
Outdoor Recreation - A New Factor Disturbing Lake Ecosystems, as Exemplified by Lake Gim, Mazurian Lake District, W85-04557 1809 5C

**BOARDMAN, G. D.**  
Biological Treatability Study of Wastewater from a Nylon Fibers and Plastics Facility, W85-05415 1810 5D

**BOATENG, K.**  
Ground Water Contamination of Two Production Wells: A Case History, W85-00363 1801 5F

**BOATMAN, E. S.**  
Cancer Risk from Asbestos in Drinking Water: Summary of a Case-Control Study in Western Washington, W85-02705 1806 5C

Use of Quantitative Analysis of Urine to Assess Exposure to Asbestos Fibers in Drinking Water in the Puget Sound Region, W85-02712 1806 5A

**BOBEE, B.**  
Multivariate Analysis of Parameters Related to Lake Acidification in Quebec, W85-02981 1806 5B

**BOCHAROV, V. A.**  
Study of Heavy-Metal Concentration in River Runoff from Urbanized Territories, W85-04121 1808 5B

**BOCKRIS, J. O'M.**  
Electrochemical Approach to the Prevention of Biofouling Phenomena, W85-00863 1802 3A

**BODALY, R. A.**  
Collapse of the Lake Whitefish (*Coregonus clupeaformis*) Fishery in Southern Indian Lake, Manitoba, following Lake Impoundment and River Diversion, W85-00641 1802 6G

Environmental Impact Prediction and Assessment: The Southern Indian Lake Experience, W85-00645 1802 6G

Increases in Fish Mercury Levels in Lakes Flooded by the Churchill River Diversion, Northern Manitoba, W85-00640 1802 5B

Postimpoundment Winter Sedimentation and Survival of Lake Whitefish (*Coregonus clupea-*

## AUTHOR INDEX

**BODALY, R. A.**

formis) Eggs in Southern Indian Lake, Manitoba, W85-00642	1802 6G	BOFFARDI, B. P. Treating and Monitoring Corrosion and Scale in Distribution Systems, W85-00551	1802 5F	BOITEN, W. V-Shaped Short-Crested Weir With Semicircular Cross Section, W85-03815	1808 7B
Response of a Boreal Northern Pike ( <i>Esox lucius</i> ) Population to Lake Impoundment: Wupaw Bay, Southern Indian Lake, Manitoba, W85-00643	1802 6G	BOGACZ, K. Hydrogeological Properties of the Zalas Porphyry Lacolith Near Krzeszowice (Wlasnosci Hydrogeologiczne Porfiru Lakkolitu Zalskiego Kolo Krzeszowic), W85-05858	1811 2F	BOKN, T. Effects of Diesel Oil on Recolonization of Benthic Algae, W85-03503	1807 5C
<b>BODE, L.</b> Initial Transients in Long Wave Computations, W85-03008	1806 8B	BOGARDI, I. Multicriterion Network Design Using Geostatistics, W85-05499	1810 2F	BOLE, J. B. Irrigation of Forages with Rendering Plant Wastewater: Forage Yield and Nitrogen Dynamics, W85-06623	1812 5D
<b>BODENNEC, G.</b> Determination of Polyaromatic Hydrocarbon in Scallops ( <i>Pecten maximus</i> ) by UV Fluorescence and HPLC Combined with UV and Fluorescence Detectors, W85-04474	1809 5B	BOGEN, J. Morphology and Sedimentology of Deltas in Fjord and Fjord Valley Lakes, W85-01054	1802 2J	BOLISKA, S. A. Use of Fish Cell Cultures as an Indication of Contaminant Toxicity to Fish, W85-06440	1812 5A
<b>BODNER, K. M.</b> Triclopyr Triethylamine Salt Toxicity to Life Stages of the Fathead Minnow ( <i>Pimephales promelas Rafinesque</i> ), W85-02417	1805 5C	BOGESS, W. R. Tree-Ring Data: Valuable Tool for Reconstructing Annual and Seasonal Streamflow and Determining Long-Term Trends, W85-04328	1808 2E	BOLLA, M. Submodels for the Nutrient Loading Estimation on River Zala, W85-05604	1810 5B
<b>BODROGOZY, G.Y.</b> Effect of Precipitation Maximums on the Species Synthesis of the Agrophytocenes of the Sand Ridge Between the Danube and Tisza, W85-02474	1805 2A	BOGGS, J. A. Catastrophic Anoxia in the Chesapeake Bay in 1984, W85-06159	1811 2L	BOLLER, M. Full Scale Experience with Tertiary Contact Filtration, W85-03648	1807 5D
Hydroecology of the Grass-Associations Found at the Dams Along the Upper-Tisza, W85-03118	1806 2I	BOGORODSKII, V. V. Effect of Oil Pollution on Processes Occurring in Water Basins, W85-05151	1810 5C	BOLLINGER, M. S. Radium Fluxes from a Salt Marsh, W85-05468	1810 2L
<b>BODVARSSON, G.</b> Linearization Techniques and Surface Operators in the Theory of Unconfined Aquifers, W85-02669	1805 2F	BOHAC, C. E. Reservoir Release Improvement, W85-05298	1810 5G	BOLOGNANI FANTIN, A. M. Effects of Copper Pollution on <i>Ictalurus nebulosus</i> (Effetti Dell'Inquinamento Da Rame Su <i>Ictalurus nebulosus</i> ), W85-02498	1805 5C
<b>BODVARSSON, G. S.</b> Krafla Geothermal Field, Iceland; 1. Analysis of Well Test Data, W85-03553	1807 2F	BOHE, M. Accumulation and Toxicity of Cd, Zn, Ag, and Hg in Four Marine Phytoplankters, W85-02758	1806 5C	BOLS, N. C. Use of Fish Cell Cultures as an Indication of Contaminant Toxicity to Fish, W85-06440	1812 5A
Krafla Geothermal Field, Iceland; 2. The Natural State of the System, W85-03554	1807 2F	BOHLEN, W. F. Nutrient and Trace Metal Geochemistry of a Dredge Plume, W85-00289	1801 5B	BOLTO, B. A. Development of Desalination in Australia, W85-06693	1812 3A
Krafla Geothermal Field, Iceland; 3. The Generating Capacity of the Field, W85-03555	1807 4B	BOHM, L. Hydrochemical Results of the Treatment of Heavily Loaded Surface Water and Bank Filtration with Hydrated Lime. Part 1 (Hydrochemische Ergebnisse zur Aufbereitung stark belasteter Oberflachenwasser und Uferfiltrate mit Kalkhydrat, Teil 1), W85-06663	1812 5F	BOMAN, B. Wastewater Treatment at a Swedish Cardboard Factory: Possible Cost Savings, W85-05259	1810 5D
Krafla Geothermal Field, Iceland; 4. History Match and Prediction of Individual Well Performance, W85-03556	1807 4B	Hydrochemical Results of the Treatment of Heavily Loaded Surface Water and Bank Filtration with Hydrated Lime. Part 2 (Hydrochemische Ergebnisse zur Aufbereitung stark belasteter Oberflachenwasser und Uferfiltrate mit Kalkhydrat, Teil 2), W85-06664	1812 5F	BOMAN, B. J. Consumptive Use on the Navajo Indian Irrigation Project, W85-04224	1808 6D
Theory of the Development of Geothermal Systems Charges by Vertical Faults, W85-00177	1801 2F	BOHN, C. C. Coliforms as an Indicator of Water Quality in Wildland Streams, W85-05958	1811 5A	BOMBOWNA, M. Stream Ecosystems in Mountain Grassland (West Carpathians); 3. Chemical Composition of Water, W85-02514	1805 2K
<b>BOEGLI, W. J.</b> Preliminary Study of Solar Ponds for Salinity Control in the Colorado River Basin, W85-05306	1810 3C	BOHRER, M. L. Groundwater: A Survey of Contamination Potential in the Fox Valley Region, W85-00830	1802 5B	BONACCI, O. Rainfall as the Basis for Urban Runoff - Experience and Practice in Yugoslavia, W85-01682	1804 2B
<b>BOENING, P. H.</b> Anaerobic Fluidized Bed Whey Treatment, W85-05254	1810 5D	Wetlands of the Winnebago Pool: A Detailed Field Survey and Management Recommendations, W85-00828	1802 5G	BONAZOUNTAS, M. Soil and Groundwater Fate Modeling, W85-06766	1812 5B
<b>BOERS, P. C. M.</b> Loosdrecht Lakes Restoration Project: Sediment Phosphorus Distribution and Release from the Sediments, W85-04546	1809 2K	BOISON, P. J. Sediment Storage and Terrace Formation in Coyote Gulch Basin, South-Central Utah, W85-04646	1809 2J	BOND, C. L. Study of Cutoff Bendways on the Tombigbee River, W85-06928	1812 6G
<b>BOESCH, D. F.</b> Dependence of Fishery Species on Salt Marshes: The Role of Food and Refuge, W85-05706	1810 2L	BOESE, B. L. Uptake Efficiency of the Gills of English Sole ( <i>Parophrys vetulus</i> ) for Four Phthalate Esters, W85-03607	1807 5C	BOND, W. R. Lysimeters Allow Quicker Monitoring of Heap Leaching and Tailings Sites, W85-06838	1812 5G
<b>BOETHLING, R. S.</b> Environmental Fate and Toxicity in Wastewater Treatment of Quaternary Ammonium Surfactants, W85-02424	1805 5B	BOISONE, P. J. Bacteria in Works and Mains from Ground Water Supplies, W85-02001	1804 5F	BONDE, G. J. Bacteria in Works and Mains from Ground Water Supplies, W85-02001	1804 5F

**AUTHOR INDEX**

BOSLEY, T. R.

<b>BONDURANT, J. A.</b> Surface Films Affecting Velocity Profiles of Slowly Moving Water in Open Channels, W85-05169 1810 2E	<b>BORAH, D. K.</b> Lower Mississippi Salinity Analysis, W85-05785 1810 2L	<b>BORREGO, J. J.</b> Coliphage Survival in Seawater, W85-07114 1812 5B
<b>BONGERS, J. W. T.</b> Loosdrecht Lakes Restoration Project: Sediment Phosphorus Distribution and Release from the Sediments, W85-04546 1809 2K	<b>BORCHARDT, J. A.</b> ATP as a Measure of Active Biomass Concentration and Inhibition in Biological Wastewater Treatment Processes, W85-05561 1810 5D	<b>BORRELLI, J.</b> Elevation - A Bias Error in SCS Blaney Criddle ET Estimates, W85-03373 1807 2D
<b>BONHOMME, H. L.</b> Twenty-Five Years of Phytoplankton on the West Fork and Main Stem of the White River: 1958-1982, W85-06849 1812 2H	<b>BORCHARDT, T.</b> Relationships Between Carbon and Cadmium Uptake in <i>Mytilus edulis</i> , W85-06521 1812 5C	<b>BORROWS, P. F.</b> Leakage Investigations in Hounslow, W85-03884 1808 3D
<b>BONKOSKI, W. A.</b> Anaerobic-Aerobic Treatment of a Wheat Starch Plant Effluent: A Case History, W85-05564 1810 5D	<b>BORCIANI, G.</b> Behaviour of Hydraulic Machines under Steady Oscillations, W85-02677 1805 8C	<b>BORTHAKUR, D. N.</b> Effects of Feeding Rates on Production of Common Carp and Water Quality in Paddy-cum-Fish Culture, W85-02236 1805 5B
<b>BONNER, F. T.</b> Nitrogen-Isotope Ratios of Nitrate in Ground Water Under Fertilized Fields, Long Island, New York, W85-04641 1809 5B	<b>BORG, H.</b> Fractionation of Trace Metals in Acidified Fresh Waters by <i>in situ</i> Dialysis, W85-04535 1809 5B	<b>BORTKEVICH, S. V.</b> Density of Placing Sand-Gravel and Pebble Soils in Dams, W85-00470 1801 8D
<b>BONOTTO, S.</b> Behavior of Tritium in the Marine Environment: Uptake and Distribution of Tritiated Water and of Tritiated Organic Compounds in Unicellular and Multicellular Algae, W85-03501 1807 5B	<b>BORG, H.</b> Mercury in Swedish Lakes - Its Regional Distribution and Causes, W85-00087 1801 5B	Evaluation of the Engineering-Geological Properties of Clay Foundations of Earth Dams, W85-06594 1812 8D
<b>BOOKER, I.</b> River Bure, United Kingdom: Patterns of Change in Chemistry and Phytoplankton in a Slow-Flowing Fertile River, W85-05676 1810 2E	<b>BORGGMANN, U.</b> Copper Complexation and Toxicity to <i>Daphnia</i> in Natural Waters, W85-04716 1809 5C	Study of the Seepage and Piping Stability of Dolomite Soil and Evaluation of its Suitability for a Dam Core on a Rock Foundation, W85-03579 1807 8D
<b>BOOKER, J. R.</b> 1-D Pollutant Migration in Soils of Finite Depth, W85-06024 1811 5B	<b>BORGGOO, H.</b> Copper Complexation and Toxicity to Freshwater Zooplankton, W85-02211 1805 5C	<b>BORTLESON, G. C.</b> Occurrence, Quality, and Use of Ground Water in Orcas, San Juan, Lopez, and Shaw Islands, San Juan County, Washington, W85-02043 1804 7C
<b>BOOMAN, K.</b> Environmental Intervention Analysis: Wisconsin's Ban on Phosphate Detergents, W85-06228 1812 5D	<b>Zooplankton and Potential Fish Production in Lake Ontario,</b> W85-02999 1806 2H	<b>BORTNIK, V. N.</b> Present and Predicted Changes in the Hydrological, Hydrochemical, and Hydrobiological Conditions of the Aral Sea, W85-04128 1808 6G
<b>BOON, J. J.</b> Pyrolysis Mass Spectrometry of Some <i>Scirpus</i> Species and Their Decomposition Products, W85-01591 1803 2H	<b>BORGOO, H.</b> Some Limnological Characteristics of a Temperate Forest Pond, W85-05651 1810 2H	<b>BORUP, M. B.</b> Overland Flow Wastewater Treatment at Easley, South Carolina, W85-07050 1812 5D
<b>BOON, P. J.</b> Re-Examination of the Submerged Tree Fauna in Lake Kariba (South Central Africa), 24 Years after Inundation, W85-03234 1807 2H	<b>BORLAND, J. P.</b> Estimation of Natural Streamflow in the Jemez River at the Boundaries of Indian Lands, Central New Mexico, W85-02048 1804 2E	<b>BORYCHEV, V. M.</b> Calculation of the Particle-Size Distribution of Blasted Rock, W85-00471 1801 8E
<b>BOOTH, G. M.</b> Toxicity, Accumulation, and Elimination of Polycyclic Aromatic Sulfur Heterocycles in <i>Daphnia magna</i> , W85-02195 1805 5C	<b>BORMAN, R. G.</b> Generalized Altitude and Configuration of the Water Table in Parts of Larimer, Logan, Sedgewick, and Weld Counties, Colorado, W85-01775 1804 2F	<b>BORZELLECA, J. F.</b> Behavioral Toxicity of Trihalomethane Contaminants of Drinking Water in Mice, W85-01212 1803 5C
<b>BOOTH, R. S.</b> Major Institutional Arrangements Affecting Ground Water in New York State, W85-01802 1804 6E	<b>BORMANN, F. H.</b> Long-Term Trends in Precipitation Chemistry at Hubbard Brook, New Hampshire, W85-04502 1809 5B	<b>BOS, A. W.</b> Effects of Livestock Wastes and Agricultural Drainage on Water Quality: An Ontario Case Study, W85-05973 1811 5B
<b>BOOTHROYD, J. C.</b> Seagrass-Sediment Dynamics of a Flood-Tidal Delta in Rhode Island (U.S.A.), W85-01081 1802 2L	<b>BORNHOLDT, D.</b> Aquatic Parameters and Life History Observations of the Great Basin Spadefoot Toad in Utah, W85-06869 1812 2H	<b>BOS, M. G.</b> Portable RBC Flumes for Furrows and Earthen Channels, W85-03393 1807 7B
<b>BOOY, C.</b> Effect of Clustering of Flood Peaks on a Flood Risk Analysis for the Red River, W85-06553 1812 2E	<b>BORNSTEIN, J.</b> Alfalfa Growth and Soil Oxygen Diffusion as Influenced by Depth to Water Table, W85-02877 1806 2G	Rectangular Measuring Flumes for Lined and Earthen Channels, W85-01506 1803 8A
<b>BORAAS, M. E.</b> Long-term Phytoplankton Changes in Lake Michigan: Cultural Eutrophication or Biotic Shifts, W85-02639 1805 2H	<b>BOROVIC, I.</b> Irrigation with Brackish Water Under Desert Conditions; I. Problems and Solutions in Production of Onions ( <i>Allium cepa</i> L.), W85-06282 1812 3C	<b>BOSC, J.</b> Development of Axial Flow Machines for use in Tidal Power Plants (Evolution des Groupes Axiaux pour l'Equipement des Installations Marémotrices), W85-05546 1810 8C
	<b>BORVOOI, A. A.</b> New Problems and Methods of Engineering-Geological Evaluation of Foundations of Large Dams, W85-00477 1801 8A	<b>BOSCH, J. M.</b> Dependence of Storm Flows on Rainfall Intensity and Vegetal Cover in South Africa, W85-04284 1808 2E
		<b>BOSLEY, T. R.</b> Larval Fish of Selected Aquatic Habitats on the Lower Mississippi River, W85-06969 1812 6G

## AUTHOR INDEX

**BOSSART, J. M.**

**BOSSART, J. M.**  
Effect of Acid Precipitation on Soil Microbial Activity: II. Field Studies, W85-06619 1812 5C

**BOSSELMANN, S.**  
Diel Variation in Concentration, Assimilation and Respiration of Dissolved Free Amino Acids in Relation to Planktonic Primary and Secondary Production in Two Eutrophic Lakes, W85-00994 1802 2H

**BOSSY, A.**  
Comparative Study of Four Automatic Irrigation Devices Applied to the Trickle Irrigation of Maize (Etude Comparative de Quatre Dispositifs d'Irrigation Automatique: Application au maïs Irriguer en Localisé), W85-01061 1802 3F

**BOSTON, T.**  
Process Design Manual for Land Application of Municipal Sludge, W85-05127 1810 5D

**BOSTROM, B.**  
Potential Mobility of Phosphorus in Different Types of Lake Sediment, W85-02567 1805 2H

**BOTHA, G. R.**  
Research Related to Water Pollution Control in South Africa, W85-04456 1809 5D

**BOTT, T. L.**  
Benthic Bacterial Biomass Supported by Streamwater Dissolved Organic Matter, W85-04088 1808 2H

Benthic Community Metabolism in Four Temperate Stream Systems: An Inter-Biome Comparison and Evaluation of the River Continuum Concept, W85-06792 1812 2H

Diel Fluctuations of DOC Generated by Algae in a Piedmont Stream, W85-01602 1803 2H

In Situ Measures of Dissolved Organic Carbon Flux in a Rural Stream, W85-01493 1803 2H

**BOTTOMLEY, D. J.**  
Borehole Methodology for Hydrogeochemical Investigations in Fractured Rock, W85-02670 1805 7B

Helium and Neon Isotope Geochemistry of Some Ground Waters from the Canadian Precambrian Shield, W85-03210 1806 2F

Neutralization of Acid Runoff by Groundwater Discharge to Streams in Canadian Precambrian Shield Watersheds, W85-04268 1808 2K

**BOTTOMLEY, P. J.**  
Impact of Nitrogen and Phosphorus on (14C)-Lignocellulose Decomposition by Stream Wood Microflora, W85-07136 1812 2H

Nitrogen Dynamics in Stream Wood Samples Incubated with (14C)Lignocellulose and Potassium (15N)Nitrate, W85-07137 1812 2H

**BOTTI, J. A.**  
Indirect Effects of Chlorinated Wastewater on Bacteriovorous Protozoa, W85-00908 1802 5D

**BOTTI, L.**  
Toxic Fallout: The Invisible Great Lakes Problem, W85-03713 1807 5B

**BOUCHARD, D. C.**  
Mobility and Persistence of Hexazinone in a Forest Watershed, W85-06720 1812 5B

**BOUCHER, R. J.**  
Radar Determination of Snowfall Rate and Accumulation, W85-06428 1812 2B

**BOUCHERIE, M. M.**  
Changes in Cladocera Community Structure and Fossil Pigment Stratigraphy as Compared to the Fire History of Elk Lake, Clearwater Co., MN, U.S.A., W85-05624 1810 5C

Postglacial Changes in Algal and Cladoceran Assemblages in Little Round Lake, Ontario, W85-06392 1812 2H

**BOUDOU, A.**  
Bioaccumulation and Tissue Distribution of Mercury - HgCl<sub>2</sub> and CH<sub>3</sub>HgCl - in Salmo gairdneri After Direct Contamination (Bioaccumulation et Répartition Tissulaire Du Mercure - HgCl<sub>2</sub> et CH<sub>3</sub>HgCl - Chez Salmo gairdneri Apres Contamination Par Voie Directe), W85-02925 1806 5C

**BOUGHTON, W. C.**  
Flood Frequency Characteristics of Some Arizona Watersheds, W85-03142 1806 2E

Variation of Model Parameter Values and Sensitivity with Type of Objective Function, W85-00180 1801 2A

**BOUGIE, R.**  
Accumulation of Copper and Zinc in the Yellow Water Lily, Nuphar variegatum: Relationships to Metal Partitioning in the Adjacent Lake Sediments, W85-04837 1809 5B

Aluminum Speciation in Surface Waters on the Canadian Pre-Cambrian Shield, W85-02634 1805 2K

**BOUILIER, J. F.**  
Flux and Water Content Relation at the Soil Surface, W85-06538 1812 2G

**BOUMA, J.**  
Nitrogen Leaching During Sprinkler Irrigation of a Dutch Clay Soil, W85-03480 1807 5G

**BOUNO, A.**  
Southern Hills Regional Aquifer System of Southeastern Louisiana and Southwestern Mississippi, W85-00848 1802 2F

**BOURBIGOT, M. M.**  
Oxidation of Organic Compounds Through the Combination Ozone-Hydrogen Peroxide, W85-06212 1812 5F

Study of Mutagenic Activity in Water in a Progressive Ozonation Unit (Etude du Caractère Mutagène de l'Eau dans une Filière de Production à l'Ozonation Étageée), W85-01987 1804 5F

**BOURCIER, M.**  
Ecological Evaluation of a Permanent Diversion of a Small River into the Sewer Outlet of a Large City (Bilan Ecologique du Detournement Permanent d'un Petit Fleuve Cotier dans l'Emissaire d'Eaux Usées d'une Grande Ville), W85-01311 1803 5C

**BOURGEOIS, H. S. JR.**  
Status of Reverse Osmosis vs. Ion Exchange for Petroleum/Petrochemical Utilities, W85-01853 1804 5F

**BOURGOIN, J.**  
Ecological Problems Related to the Loire Estuary Development, W85-00575 1802 6G

**BOURNAUD, M.**  
Seasonal Dynamics of Water Movements and of Suspended Matter in a Large River (Dynamique Saisonnière des Mouvements de l'eau et des Particules en Suspension dans un Fleuve), W85-05681 1810 2E

**BOURODIMOS, E. L.**  
Modeling for Design of Landfill Bottom Liners, W85-03803 1808 5G

Moisture Transport in a Solid Waste Column, W85-02276 1805 5B

**BOUSLAMA, M.**  
Stress Tolerance in Soybeans. I. Evaluation of Three Screening Techniques for Heat and Drought Tolerance, W85-06206 1812 2I

**BOUTRON, C.**  
Atmospheric Trace Metals in the Snow Layers Deposited at the South Pole from 1928 to 1977, W85-00244 1801 2K

**BOUTRON, C. F.**  
Atmospheric Heavy Metals in High Altitude Surface Snows From Mont Blanc, French Alps, W85-04501 1809 5B

**BOUVARD, M.**  
Vertical Dispersion of Spherical, Heavy Particles in Turbulent Open Channel Flow, W85-07031 1812 2J

**BOUVEROT, M.**  
Remote Monitoring and Optimisation of Pumping at the Syndicat des Eaux de La Haute-Loue (Télésurveillance et Optimisation du Pompage du Syndicat des Eaux de La Haute-Loue), W85-02005 1804 5F

**BOUWER, E. J.**  
Modeling of Trace Organics Biotransformation in the Subsurface, W85-01531 1803 5B

Organic Contaminant Behavior During Rapid Infiltration of Secondary Wastewater at the Phoenix 23rd Avenue Project, W85-05335 1810 5D

**BOUWER, H.**  
Design Considerations for Earth Linings for Seepage Control, W85-00329 1801 8D

Hydraulic Properties of Stony Vadoses Zones, W85-03149 1806 2F

Land Treatment of Municipal Wastewater: Selected Examples in the United States, W85-05324 1810 5D

**BOUWMAN, L. A.**  
Ecology of Meiofauna in an Organically Polluted Estuarine Mudflat, W85-04676 1809 2L

**BOWDEN, B. S.**  
Fluoride Analyses of Patient Water Supplies Requested by North Carolina Health Professionals, W85-03748 1807 5F

**BOWDEN, K.**  
Relating Effluent Control Parameters to River Quality Objectives Using a Generalised Catchment Simulation Model, W85-01402 1803 5G

River Quality and Sewage Effluent Standards, W85-05515 1810 5G

**BOWDEN, R. J.**  
Contaminant Analysis of Fillets from Great Lakes Coho Salmon, 1980, W85-01358 1803 5A

## AUTHOR INDEX

		<b>BRAILEY, D.</b>
<b>BOWDEN, W. B.</b>		
Nitrogen and Phosphorus in the Sediments of a Tidal Freshwater Marsh in Massachusetts, W85-02395	1805 2J	
<b>BOWERS, D. L.</b>		
Interaction of Groundwater and Basalt Fissure Surfaces and Its Effect on the Migration of Actinides, W85-06774	1812 5B	
<b>BOWERS, J. K.</b>		
Cost-Benefit Analysis of Wetland Drainage, W85-00278	1801 4A	
<b>BOWES, G. W.</b>		
1,2-Dichloropropane (1,2-D)-1,3-Dichloropropane (1,3-D), W85-06332	1812 5C	
<b>BOWES, M. D.</b>		
Forest Management for Increased Timber and Water Yields, W85-01338	1803 3B	
<b>BOWIE, A. J.</b>		
Material and Site Controls of Stream Bank Vegetation, W85-06095	1811 2E	
<b>BOWIE, J. E.</b>		
Co-Treatment of Water Softening and Wastewater Sludges, W85-00609	1802 5E	
<b>BOWLING, L. C.</b>		
Endangered Lakes of Scientific and Cultural Value in the World Heritage Area of Southwest Tasmania, W85-03761	1807 6G	
<b>BOWMAN, K. S.</b>		
Origins and Effects of Coagulation in Lakes, W85-04075	1808 2H	
<b>BOWMAN, R. S.</b>		
Evaluation of Some New Tracers for Soil Water Studies, W85-02869	1806 2G	
<b>BOWMER, K. H.</b>		
Detoxification of Effluents in a Macrophyte Treatment System, W85-04489	1809 5D	
<b>BOWRON, M.</b>		
Recovery of Hexachlorocyclohexane Isomers in Fortified Water Samples, W85-06601	1812 5A	
<b>BOWRON, P. L.</b>		
Recovery of Hexachlorocyclohexane Isomers in Fortified Water Samples, W85-06601	1812 5A	
<b>BOWSER, C. J.</b>		
Ground Water as a Silica Source for Diatom Production in a Precipitation-Dominated Lake, W85-05775	1810 2H	
<b>BOWYER, G. E.</b>		
Empingham Reservoir Project (Rutland Water), W85-06173	1811 8A	
<b>BOX, M. H.</b>		
Water Reclamation and River Management in the Tame Basin, W85-04460	1809 5G	
<b>BOY, V.</b>		
Ecological Survey of Standing Waters in North West Africa: I. Rapid Survey and Classification, W85-00121	1801 2L	
<b>BOYADZHIEV, L.</b>		
Removal of Phenol from Waste Water by Double Emulsion Membranes and Creeping Film Pertraction, W85-05036	1810 5D	
<b>BOYCE, F. M.</b>		
Entrainment by Bottom Current in Lake Erie, W85-01600	1803 2H	
<b>BOYD, C. E.</b>		
Comparisons of Devices for Aerating Inflow of Pipes, W85-00946	1802 5F	
<b>BOYD, J. N.</b>		
Toxicologic Studies Associated with the Agricultural Use of Municipal Sewage Sludge and Health Effects among Sewage Treatment Plant Workers, W85-04776	1809 5E	
<b>BOYD, S.</b>		
Reef-Building Coral Skeletons as Chemical Pollution (Phosphorus) Indicators, W85-00200	1801 5A	
<b>BOYER, D. G.</b>		
Estimation of Daily Temperature Means Using Elevation and Latitude in Mountainous Terrain, W85-02986	1806 2A	
<b>BOYER, I. C.</b>		
Effects of Mussel Aquaculture on the Nitrogen Cycle and Benthic Communities in Kenepuru Sound, Marlborough Sounds, New Zealand, W85-06211	1812 2L	
<b>BOYLAN, R. A.</b>		
Effect of Acid Precipitation on Soil Microbial Activity: I. Soil Core Studies, W85-06618	1812 5C	
Effect of Acid Precipitation on Soil Microbial Activity: II. Field Studies, W85-06619	1812 5C	
<b>BOYLE, A. E.</b>		
Marine Pollution Under the Law of the Sea Convention, W85-06366	1812 6E	
<b>BOYLE, J. D.</b>		
Effects of Biological Films on BOD Decay Rates in Rivers, W85-01436	1803 5B	
<b>BOYLE, N. R.</b>		
Role of Benthic Films in the Oxygen Balance in an East Devon River, W85-02426	1805 5C	
<b>BOYLEN, C. W.</b>		
Submersed Macrophyte Communities of Adirondack Lakes (New York, U.S.A.) of Varying Degrees of Acidity, W85-06804	1812 2H	
<b>BOYNTON, W. R.</b>		
Influence of Waves and Seagrass Communities on Suspended Particulates in an Estuarine Embayment, W85-03347	1807 2L	
<b>BOYSAN, F.</b>		
Simulation of Dispersion of Heavy Particles in Confined Turbulent Flows, W85-00197	1801 2J	
<b>BRADBURY, K. R.</b>		
Computerized Technique for Estimating the Hydraulic Conductivity of Aquifers From Specific Capacity Data, W85-05846	1810 2F	
<b>BRADDOCK, R. D.</b>		
Determination of the Hydrogeologic Properties of Lakebeds Using Offshore Geophysical Surveys, W85-03148	1806 2H	
<b>BRADEEN, S. A.</b>		
Use of Peat for On-Site Wastewater Treatment: I. Laboratory Evaluation, W85-03853	1808 5D	
<b>BRADEN, J. B.</b>		
Agricultural Nonpoint Pollution Control: An Assessment, W85-05942	1811 5G	
<b>BRADLEY, B. P.</b>		
Hypoxic Stress in Copepods, W85-00078	1801 5C	
<b>BRADLEY, C.</b>		
Meandering Channel Response to Altered Flow Regime: Milk River, Alberta and Montana, W85-04078	1808 2E	
<b>BRADLEY, R. M.</b>		
BOD Removal Efficiencies in Two Stabilization Lagoons in Series in Malaysia, W85-04515	1809 5D	
<b>BRADLEY, S. B.</b>		
Flood Effects on the Transport of Heavy Metals, W85-00510	1802 5B	
<b>BRADSHAW, H. D.</b>		
Nutrient Assimilative Capacity of an Alluvial Floodplain Swamp, W85-04386	1808 2L	
<b>BRADSHAW, W. H.</b>		
Method for Measuring Stream Flows in Rivers, W85-03833	1808 7B	
<b>BRADY, G. L.</b>		
Acid Rain: The Data and Monitoring Needs, W85-00508	1802 7A	
<b>BRADY, J. A.</b>		
Pollution Control Policies for the Tees Estuary, W85-04525	1809 5G	
<b>BRADY, K. S.</b>		
Effects of Phosphate Fertilizer Applications and Chemistry-Mineralogy of the Iron Oxide System on Phosphate Adsorption-Desorption by Stream Sediments, W85-01794	1804 5B	
<b>BRAESTER, C.</b>		
Determination of Formation Permeability of Double-Packer Tests, W85-01618	1803 2F	
<b>BRAGA, B. P. F. JR.</b>		
Capacity Expansion of Sao Paulo Water Supply, W85-06034	1811 6A	
<b>BRAHAM, R. R. JR.</b>		
Quantitative Estimates of the Effect of Lake Michigan on Snowfall, W85-03846	1808 2B	
<b>BRAIDECH, T. E.</b>		
Causes of a Waterborne Giardiasis Outbreak, W85-04830	1809 5F	
<b>BRAILEY, D.</b>		
Evaluating Dewatering Alternatives, W85-02992	1806 5E	
Evaluating Enclosed Composting Systems, W85-02299	1805 5E	

## AUTHOR INDEX

**BRAININA, KH. Z.**

Effect of Organic Substances on the Results of Anodic Stripping Voltammetry Detection of Metal Ions in Aqueous Media, W85-06056 1811 5A

**BRAKENRIDGE, G. R.**  
Alluvial Stratigraphy and Radiocarbon Dating Along the Duck River, Tennessee: Implications Regarding Flood-Plain Origin, W85-01131 1803 2J

**BRAKKE, D. F.**  
Acidification and Changes over Time in the Chydorid Cladocera Assemblage of New England Lakes, W85-04203 1808 5C

Acidification History and Prediction Using Biological Indices, W85-05626 1810 5C

Aquatic Macrophytes and pH as Controls of Diversity for Littoral Cladocerans, W85-04202 1808 5C

Temperature Characteristics, Annual Heat Storage, and River Diversion Influence on a Monomictic Lake, W85-03110 1806 2H

**BRAMMER, E. S.**  
Photosynthesis of Submersed Macrophytes in Acidified Lakes. I. Carbon Fluxes and Recycling of CO<sub>2</sub> in *Juncus bulbosus* L., W85-02794 1806 2H

**BRAND, G. W.**  
Suspended Sediments and Nutrients in Water Ebbing from Seagrass-Covered and Denuded Tidal Mudflats in a Southern Australian Embayment, W85-04856 1809 2L

**BRANICA, M.**  
Bioaccumulation of Heavy Metals by Bivalves from Lim Fjord (North Adriatic Sea), W85-02471 1805 5B

**BRANNON, J. M.**  
Fixation and Mobilization of Antimony in Sediments, W85-05975 1811 5B

**BRAS, R. L.**  
Conditional Distributions of Neyman-Scott Model for Storm Arrivals and Their Use in Irrigation Scheduling, W85-05795 1810 2B

Hydrologically Useful Station Precipitation Model; 1. Formulation, W85-03557 1807 2B

Hydrologically Useful Station Precipitation Model; 2. Case Studies, W85-03558 1807 2B

Physically Based Flood Frequency Distribution, W85-02168 1804 2E

**BRASS, H. J.**  
Organic Halogen Measurements: Current Uses and Future Prospects, W85-06494 1812 5A

**BRASSARD, P.**  
Rapid Method for Separating Phosphorus Compounds by Molecular Weight Using Exclusion Gels and Centrifugation, W85-02439 1805 5A

**BRAUBACH, H.-O.**  
Demands Placed on Processing Plants by Developments in Legislation for the Protection of Water (Anforderungen an verfahrenstechnische Anlagen durch die Weiterentwicklung der Gewässerschutz-Vorschriften), W85-05982 1811 6E

**BRAUN, A. M.**

Singlet Oxygen in Surface Waters - Part I: Furfuryl Alcohol as a Trapping Agent, W85-01964 1804 2K

Singlet Oxygen in Surface Waters - Part II: Quantum Yields of Its Production by Some Natural Humic Materials as a Function of Wavelength, W85-01965 1804 2K

**BRAUN, R. D.**

Study of the pH of Rain in Lafayette, Louisiana, W85-06489 1812 5B

**BRAUNGART, M.**

Separation of Molybdoheteropoly Acids of Phosphorus, Arsenic, Silicon and Germanium as Ion-Associates by HPLC. Application to Quantitative Determination in Water, W85-06764 1812 5A

**BRAUWERS, C.**

Effects of H<sub>2</sub>SO<sub>3</sub> and H<sub>2</sub>SO<sub>4</sub> on *Anabaena cylindrica* (Les Effets du H<sub>2</sub>SO<sub>3</sub> et du H<sub>2</sub>SO<sub>4</sub> Sur *Anabaena cylindrica* (Cyanophyte)), W85-05071 1810 5C

**BRAVARNIK, S. E.**

Experience in Restoration of the Spillway Dissipator of the Head Hydroelectric Station of the Chir-Yun Sequence, W85-00456 1801 8A

**BRAVEN, J.**

Initial Studies on the Use of High-Performance Liquid Chromatography for the Rapid Assessment of Sewage Treatment Efficiency, W85-01721 1804 5D

**BRAYSHAW, A. C.**

Bed Microtopography and Entrainment Thresholds in Gravel-Bed Rivers, W85-05730 1810 2J

Electromagnetic Device for Automatic Detection of Bedload Motion and Its Field Applications, W85-01276 1803 2J

**BRAYTON, P. R.**

Numerical Taxonomy of Phenanthrene-Degrading Bacteria Isolated from the Chesapeake Bay, W85-03433 1807 5B

**BREBBIA, C. A.**

Diffusion-Convection Problems Using Boundary Elements, W85-04160 1808 2A

**BREDEHOEFT, J. D.**

Engineering Economic Analysis of a Program for Artificial Groundwater Recharge, W85-05001 1810 4B

**BREEN, A.**

Predictive Assessment of Priority Pollutant Bio-Oxidation Kinetics in Activated Sludge, W85-02768 1806 5D

**BREEN, C. M.**

Decomposition of *Cynodon dactylon* (L.) Pers. in the Seasonally Flooded Areas of the Pongolo River Floodplain: Pattern and Significance of Dry Matter and Nutrient Loss, W85-01479 1803 2H

Drought Stress and the Demise of *Acacia albida* Along the Lower Kuiseb River, Central Namib Desert: Preliminary Findings, W85-00215 1801 2B

Vertical Stratification in Sediments from a Young Oligotrophic South African Impoundment: Implications in Phosphorus Cycling, W85-02086 1804 2H

**BREKHOVSKIKH, V. F.**

Effect of Mechanical Aeration of Intra-Water-Body Processes in a Stratified Lake (Vliyaniye

Iskusstvennoi Aeratsii na Vnutrivodoemnye Protsessy v Stratifikovannom Ozere), W85-06471 1812 5G

**BREMEN, W. M.**

Oxidation of Cyanides in Industrial Wastewaters by Ozone, W85-04881 1809 5D

**BREN, L. J.**

Hydrologic Behaviour of a Small Forested Catchment, W85-06052 1811 2A

**BRENNER, R. N.**

Consolidation of a Stream Quality Monitoring Network, W85-02973 1806 7A

**BRESLAU, B. R.**

Evaluation of Hollow Fiber Ultrafiltration as a Pretreatment for Reverse Osmosis Desalination of Seawater' W85-01830 1804 3A

**BRESLER, E.**

Nonuniform Sprinkler Irrigation and Crop Yield, W85-05924 1811 3F

**BRETTON, R. A.**

Treatment of Electroless Copper Plating Wastes, W85-05431 1810 5D

**BRETSCHNEIDER, H.-J.**

Differential Pulse Stripping-Voltammetry for Routine Heavy-Metal Analysis of Drinking Water (Differentielle Pulsinversvoltammetrie fur die Schwermetallanalytik von Trinkwasser), W85-03719 1807 5A

**BREVIK, E. M.**

Particle Discrimination Effects in the Determination of Trace Metals in Natural Fresh Waters, W85-06252 1812 5A

**BREZGUNOV, V. S.**

Change in the Hydrophysical Properties of Peat-Bog Soils after Application of Hydrolyzed Polyacrylonitrile, W85-06752 1812 3B

**BREZONIK, P. L.**

Application of Nutrient Loading Models to the Analysis of Trophic Conditions in Lake Okeechobee, Florida, W85-00977 1802 5B

Nitrogen and Phosphorus Removal by Cypress Swamp Sediments,

W85-05695 1810 5D

**BRIAT, M.**

Snow Chemistry on James Ross Island (Antarctic Peninsula), W85-00519 1802 2C

**BRICE, J. C.**

Assessment of Channel Stability at Bridges Sites, W85-06109 1811 8A

**BRICELJ, V. M.**

Growth of Juvenile *Mercenaria mercenaria* and the Effect of Resuspended Bottom Sediments, W85-04085 1808 5C

**BRICKLER, S. K.**

Anaerobic Incubation of Membrane Filter Cultures for Improved Detection of Fecal Coliforms from Recreational Waters, W85-02595 1805 5A

Analysis of Sample Preparation Procedures for Enumerating Fecal Coliforms in Coarse Southwestern U.S. Bottom Sediments by the Most-Probable-Number Method, W85-02942 1806 5A

Recreational Water Quality Analyses of the Colorado River Corridor in Grand Canyon, W85-03430 1807 5B

## AUTHOR INDEX

BROOKS, I.

**BRIDGES, W. C.**  
Technique for Estimating Magnitude and Frequency of Floods on Natural-Flow Streams in Florida,  
W85-00589 1802 2E

**BRIDLE, R. C.**  
Empingham Dam - Design, Construction and Performance,  
W85-06174 1812 8D

**BRIERE, F.**  
Utilization of a Microcomputer in the Calculation of Calcocarbonic Equilibrium Curves,  
W85-04051 1808 5F

**BRILLANTE, S. M.**  
Migration of Chlorophenolic Compounds at the Chemical Waste Disposal Site at Alkali Lake, Oregon - 1. Site Description and Ground-Water Flow,  
W85-02693 1805 5B

**BRIMBLECOMBE, P.**  
Black Acidic Snow in the Remote Scottish Highlands,  
W85-03127 1806 5B

**BRINCKMAN, F. E.**  
Accumulation and Fate of Tri-n-butyltin Cation in Estuarine Bacteria,  
W85-02185 1805 5B

Iodomethane as a Potential Metal Mobilizing Agent in Nature,  
W85-02350 1805 5B

**BRINCKMANN, E.**  
Effect of Different Growing Conditions on Water Relations Parameters of Leaf Epidermal Cells of *Tradescantia virginiana* L.,  
W85-00208 1801 2I

**BRIND, S. A.**  
Use of a Helium Survey for Evaluating the State of Groundwaters,  
W85-04110 1808 2F

**BRINDLEY, P.**  
Changes in the Extractabilities of the Heavy Metals in Water-Logged Sludge-Treated Soils,  
W85-04514 1809 5E

**BRINKHURST, R. O.**  
Comparative Study of Respiration Rates of Some Aquatic Oligochaetes in Relation to Sublethal Stress,  
W85-04905 1809 5C

Lethal and Sublethal Tolerances of Aquatic Oligochaetes with Reference to Their Use as a Biotic Index of Pollution,  
W85-02773 1806 5C

**BRINKMAN, U. A. TH.**  
Industrial Wastewater Analysis by Liquid Chromatography with Precolumn Technology and Diode-Array Detection,  
W85-06257 1812 5A

**BRINKMANN, W. A. R.**  
Association between Net Basin Supplies to Lake Superior and Supplies to the Lower Great Lakes,  
W85-01755 1804 2H

**BRINSFIELD, R. B.**  
Blue Crab Processing Plant Effluent Treatment,  
W85-01741 1804 5D

**BRINSON, M. M.**  
Application of Wastewater to Wetlands,  
W85-00079 1801 5D

Nutrient Assimilative Capacity of an Alluvial Floodplain Swamp,  
W85-04386 1808 2L

**BRISCOE, J.**  
Optimal Spacing of Interfering Wells: An Analytic Solution,  
W85-02690 1805 4B

Water Supply and Health in Developing Countries: Selective Primary Health Care Revisited,  
W85-03040 1806 6B

**BRITT, D. L.**  
Liming of Acidified Waters: A Review of Methods and Effects on Aquatic Ecosystems,  
W85-05310 1810 5C

**BRIX, H.**  
Seasonal and Environmental Variation in Cadmium, Copper, Lead and Zinc Concentrations in Eelgrass (*Zostera marina* L.) in the Limfjord, Denmark,  
W85-01080 1802 2L

**BRIZ-KISHORE, B. H.**  
Compact Modified Three-Dimensional Aquifer Simulation Program for Small Computers,  
W85-00317 1801 2F

Evaluation of Aquifer Behavior in a Typical Crystalline Basement,  
W85-00334 1801 2F

**BRO-RASMUSSEN, F.**  
Ecopidemiology - A Casuistic Discipline Describing Ecological Disturbances and Damages in Relation to Their Specific Causes: Exemplified by Chlorinated Phenols and Chlorophenoxy Acids,  
W85-04777 1809 5C

**BROBERG, O.**  
Phosphate Removal in Acidified and Limed Lake Water,  
W85-03544 1807 5D

**BROCARD, D. N.**  
Surface Buoyant Jets in Stagnant Water,  
W85-00732 1802 2E

**BROCH, E.**  
Unlined High Pressure Tunnels in Areas of Complex Topography,  
W85-04412 1809 8A

**BROCK, J. T.**  
Benthic Community Metabolism in Four Temperate Stream Systems: An Inter-Biome Comparison and Evaluation of the River Continuum Concept,  
W85-06792 1812 2H

**BROCK, M. A.**  
Aquatic Macrophyte Flora of Saline Wetlands in Western Australia in Relation to Salinity and Permanence,  
W85-05752 1810 2L

**BROCK, T. C. M.**  
Field Studies on the Breakdown of *Nuphar lutea* (L.) Sm. (Nymphaeaceae), and a Comparison of Three Mathematical Models for Organic Weight Loss,  
W85-05606 1810 2H

**BROCK, T. D.**  
Zooplankton Dynamics in Lake Mendota: Short-term Versus Long-term Changes,  
W85-04897 1809 2H

**BROCKWAY, C. E.**  
Concepts for Energy-Efficient Irrigation System Design,  
W85-01504 1803 8C

**BRODERIUS, S. J.**  
Toxicity of Ammonia to Early Life Stages of the Green Sunfish *Lipomis cyanellus*,  
W85-03045 1806 5C

**BRODIE, H. L.**  
Disposal of Secondaryly Treated Municipal Sewage by Subsurface Irrigation,  
W85-00060 1801 5E

**BRODIE, J. E.**  
Residues Related to Agricultural Chemicals in the Groundwaters of the Burdekin River Delta, North Queensland,  
W85-04039 1808 5B

**BROECKER, W. S.**  
D/H Ratios of Sap in Trees: Implications for Water Sources and Tree Ring D/H Ratios,  
W85-04758 1809 2I

Gas Exchange-Wind Speed Relation Measured with Sulfur Hexafluoride on a Lake,  
W85-05055 1810 2H

New Method for Monitoring Temporal Trends in the Acidity of Fresh Waters,  
W85-07143 1812 5A

**BROENKOW, W. W.**  
Role of Internal Tides in the Nutrient Enrichment of Monterey Bay, California,  
W85-00650 1802 2L

**BROHI, A.-B.**  
Rainfall Energy From Drop Size Data,  
W85-01696 1804 2B

**BROMHEAD, E. N.**  
Analytical Solution to the Problem of Seepage into Counterfort Drains,  
W85-05528 1810 2G

**BROMSSEN, U. V.**  
Ongoing and Recent Research on On-Site Treatment and Disposal Methods in Sweden,  
W85-05220 1810 5D

Short Term and Long Term Effects on Groundwater by Wastewater Infiltration in Subsoil System,  
W85-05216 1810 5D

**BRONMARK, C.**  
Animal Community Structure as a Function of Stream Size,  
W85-00426 1801 2H

Functional Aspects of a Lake Outlet Versus a Springfed Stream Ecosystem,  
W85-05680 1810 2H

**BRONSON, A.**  
Major Institutional Arrangements Affecting Ground Water in New York State,  
W85-01802 1804 6E

**BROOK, G. A.**  
Application of LANDSAT Imagery to Flood Studies in the Remote Nahanni Karst, Northwest Territories, Canada,  
W84-00024 1801 2A

Geological Factors Influencing Well Productivity on the Georgia Piedmont,  
W85-06319 1812 2F

**BROOKE, L. T.**  
Toxicity, Uptake, and Elimination of the Herbicides Alachlor and Dinoseb in Freshwater Fish,  
W85-01296 1803 5C

**BROOKER, M. P.**  
Behaviour of Phosphate, Nitrate, Chloride and Hardness in Twelve Welsh Rivers,  
W85-02435 1805 5G

Trihalomethanes in Some Treated Waters in SE Wales,  
W85-04336 1808 5F

**BROOKS, A. S.**  
Effects of Free and Combined Chlorine and Exposure Duration on Rainbow Trout, Channel Catfish, and Emerald Shiners,  
W85-04681 1809 5C

Long-term Phytoplankton Changes in Lake Michigan: Cultural Eutrophication or Biotic Shifts,  
W85-02639 1805 2H

**BROOKS, I.**  
Construction of Riding Mill Weir,  
W85-06172 1811 8A

## AUTHOR INDEX

**BROOKS, J. L.**

**BROOKS, J. L.**  
Use of Peat for On-Site Wastewater Treatment:  
I. Laboratory Evaluation,  
W85-03853 1808 5D

Use of Peat for On-Site Wastewater Treatment:  
II. Field Studies,  
W85-03854 1808 5D

**BROOKS, J. M.**  
Volatile Organic Inputs from an Ocean Outfall  
Near Barceloneta, Puerto Rico,  
W85-01963 1804 5E

**BROOKS, L. G.**  
Inventory of Court Creek Watershed Characteristics That May Relate to Water Quality in the Watershed,  
W85-06331 1812 2A

**BROOMFIELD, B.**  
Energy and Materials Recovery Options for the Textile Industry,  
W85-05241 1810 5D

**BROOMFIELD, M. J.**  
Leakage Investigations in Hounslow,  
W85-03884 1808 3D

**BROSSARD, C.**  
Ecological Problems Related to the Loire Estuary Development,  
W85-00575 1802 5G

**BROUGHTON, J. S.**  
Sludge Treatment and Disposal Techniques for Operation of the Coleshill Sludge Destruction Plant, U.K.,  
W85-04006 1808 5E

**BROUGHTON, R. S.**  
Effect of Water Table Depth in Organic Soil on Subsidence and Swelling,  
W85-00156 1801 2G

**BROUSEK, M.**  
Repairs and Reconstruction of Dams in the CSSR (Reparaturen und Rekonstruktion von Talsperren in der CSSR),  
W85-03457 1807 8A

**BROUWER-HOEYXUM, T.**  
Cadmium Accumulation by the Blue Crab, *Callinectes sapidus*: Involvement of Hemocyanin and Characterization of Cadmium-Binding Proteins,  
W85-05881 1811 5C

**BROUWER, M.**  
Cadmium Accumulation by the Blue Crab, *Callinectes sapidus*: Involvement of Hemocyanin and Characterization of Cadmium-Binding Proteins,  
W85-05881 1811 5C

Cadmium-Binding Proteins in the Blue Crab, *Callinectes sapidus*: Laboratory - Field Comparison,  
W85-05884 1811 5C

Trace Metal-Binding Proteins in Marine Molluscs and Crustaceans,  
W85-04873 1809 5C

**BROWN, A.**  
Geohydrologic Modelling for Industrial Waste Disposal Site Evaluation,  
W85-05379 1810 5B

**BROWN, B. G.**  
Exploratory Analysis of Precipitation Events with Implications for Stochastic Modeling,  
W85-06427 1812 2B

**BROWN, C. A.**  
Central Arizona Water Control Study: A Case for Multiobjective Planning and Public Involvement,  
W85-01387 1803 6A

**BROWN, C. H. JR.**  
Polishing Treatment of Coal Liquefaction Wastewaters,  
W85-04036 1808 5D

**BROWN, D. A.**  
Detoxification/Toxicification of Cadmium in Scorpionfish (*Scorpaena guttata*): Acute Exposure,  
W85-00878 1802 5A

**BROWN, D. J.**  
Hydrogeochemical Interaction Between a Municipal Waste Stabilization Lagoon and a Shallow Aquifer,  
W85-03154 1806 5G

**BROWN, D. W.**  
Chemical Pollutants in Sediments and Diseases of Bottom-Dwelling Fish in Puget Sound, Washington,  
W85-02347 1805 5C

Development of a Model to Predict the Adsorption of Lead from Solution on a Natural Streambed Sediment,  
W85-00604 1802 5B

**BROWN, G. J.**  
Anaerobic Pretreatment Facility also Provides Sludge Disposal Capability and Source of Renewable Energy for Food Processor,  
W85-05566 1810 5D

Anaerobic Treatment Key to Pollution Control and Solids Disposal with Energy Recovery for a Food Processor,  
W85-05229 1810 5D

**BROWN, G. M. JR.**  
Pollution Control by Effluent Charges: It Works in the Federal Republic of Germany, Why Not in the U.S.,  
W85-06534 1812 5G

**BROWN, J. A.**  
Mortality of Early Life Stages of Largemouth Bass, *Micropterus salmoides* Due to Pentachlorophenol Exposure,  
W85-05014 1810 5C

**BROWN, J. C.**  
Techniques for Evaluating Spatial and Temporal Variability in Surface Water Quality as Related to Soil Moisture and Subsurface Water Flux in Forested Watersheds,  
W85-00860 1802 5B

**BROWN, K. W.**  
Erodibility of Strip-Mine Spoils,  
W85-04344 1808 2J

Movement of Nitrogen Species Through Three Soils below Septic Fields,  
W85-01293 1803 5B

Mutagenic Activity of Runoff and Leachate Water from Hazardous Waste Land Treatment,  
W85-02588 1805 5B

Runoff Water Quality from Fresh Mine Spoil,  
W85-02744 1806 5B

**BROWN, L.**  
Initial Studies on the Use of High-Performance Liquid Chromatography for the Rapid Assessment of Sewage Treatment Efficiency,  
W85-01721 1804 5D

**BROWN, L. R.**  
Global Loss of Topsoil,  
W85-01320 1803 4D

**BROWN, M.**  
Waterborne Transmission of *Campylobacter* Enteritis,  
W85-02188 1805 5F

**BROWN, M. P.**  
Different Approach to Water Quality Sampling,  
W85-04524 1809 5A

**BROWN, R. E.**  
Effect of Flooding on Small Mammal Populations at Salamonie Lake,  
W85-06848 1812 6G

Effects of Flooding on Vegetation at Salamonie Reservoir,  
W85-06847 1812 6G

**BROWN, R. G.**  
Birds, Oil and the Canadian Environment,  
W85-05590 1810 5C

**BROWN, S.**  
Case Study, Potable Water Reservoir, Tuktoyaktuk, Northwest Territories,  
W85-04927 1809 6A

**BROWN, S. A.**  
Design Guidelines for Spur-Type Flow-Control Structures,  
W85-06112 1811 8A

Overview of Factors Affecting River Stability,  
W85-06108 1811 2J

**BROWN, S. M.**  
Methodology for Overland and Instream Migration and Risk Assessment of Pesticides,  
W85-06989 1812 5B

**BROWN, S. R.**  
Relating Effluent Control Parameters to River Quality Objectives Using a Generalised Catchment Simulation Model,  
W85-01402 1803 5G

**BROWN, T. J.**  
Effect of Baquacil on Pathogenic Free-Living Amoebae (PFLA) 3. Increased Baquacil Concentration and Exposure Time in the Presence of Bacteria,  
W85-02506 1805 5F

**BROWN, V. M.**  
Biodegradability of Two Primary Alcohol Ethoxylate Nonionic Surfactants Under Practical Conditions, and the Toxicity of the Biodegradation Products to Rainbow Trout,  
W85-04487 1809 5D

**BROWNE, T. J.**  
Exceptional Rainfall Around Lewes and the South Downs, Autumn 1982,  
W85-00581 1802 2E

**BROWNING, L. A.**  
Nitrogen-Isotope Analysis of Groundwater Nitrate in Carbonate Aquifers: Natural Sources versus Human Pollution,  
W85-00023 1801 5B

**BROYD, T. W.**  
Effects of Constructing a Barrage Across the Tawny Estuary,  
W85-00567 1802 6G

**BRUCE, J. P.**  
Great Lakes Levels and Flows: Past and Future,  
W85-00919 1802 2H

**BRUCE, R.**  
Mammal Surveillance System,  
W85-05311 1810 6G

**BRUCE, R. R.**  
Partitioning Variable Storms to Rainfall Excess and Soil Water,  
W85-05345 1810 2A

**BRUCHET, A.**  
Combination of Continuous Mode Liquid-Liquid Extraction with Coupled GC-MS for the Analysis of Pesticides in Water (Combinaison D'Une Cellule D'Extraction Liquide-Liquide en Continu et D'Un Couplage CG-MS en Vue De L'Analyse Des Pesticides Dans Les Eaux),  
W85-02913 1806 5A

## AUTHOR INDEX

**BUCHLEITER, G. W.**

<b>How Safe Are Organic Polymers in Water Treatment,</b> W85-00711	1802 5F	<b>BRUNS, D. A.</b> In Situ Nitrogen Enrichment Experiments in Two Idaho (U.S.A.) Streams, W85-06284	1812 5C	<b>BRYANT, V.</b> Effect of Temperature and Salinity on the Toxicity of Chromium to Three Estuarine Invertebrates ( <i>Corophium volutator</i> , <i>Macoma balthica</i> , <i>Nereis diversicolor</i> ), W85-04083	1808 5C
<b>BRUCK, B.</b> New Main Lock and Dam Krotzenburg (Die neue Main-Staustufe Krotzenburg), W85-03264	1807 8A	<b>BRUNSKILL, G. J.</b> Fayetteville Green Lake, New York, U.S.A., VIII. Mass Balance for 137-Cs in Water, Varved and Non-varved Sediments, W85-01102	1802 5B	<b>BRYCE, T. D.</b> Effects of Water Level Manipulation on Abundance, Mortality, and Growth of Young-of-Year Largemouth Bass in West Point Reservoir, Alabama-Georgia, W85-02375	1805 6G
<b>BRUEGGERMAN, E. E.</b> Chromatographic Trace Analysis of Guanidine, Substituted Guanidines and S-Triazines in Water, W85-02303	1805 5A	<b>BRUSCHIN, J.</b> Hydraulic Modelling at the Piedra del Aguila Dam, W85-04781	1809 8B	<b>BRZOZOWSKI, J.</b> Cold Brook Macroinvertebrate Survey, W85-00816	1802 5C
<b>BRUGAM, R. B.</b> A/C (Araphidinea/Centrales) Ratio in High and Low Alkalinity Lakes in Eastern Minnesota, W85-01461	1803 2H	<b>BRUSH, G. S.</b> Patterns of Recent Sediment Accumulation in Chesapeake Bay (Virginia-Maryland, U.S.A.) Tributaries, W85-01105	1802 2L	<b>Intensive Survey: Manasquan Estuary, May-September 1978,</b> W85-00818	1802 5A
<b>Relationship Between Fossil Diatom Assemblages and Limnological Conditions,</b> W85-00409	1801 2H	<b>BRUSTKERN, R. L.</b> Assessment of Time Series as a Methodology to Quantify Irrigation Return Flows, W85-00071	1801 4A	<b>BUBENZER, G. D.</b> Regression Equations for Predicting Available Phosphorus and Potassium in Soil Receiving Barnyard Discharges, W85-03379	1807 5B
<b>BRUGGERS, D. E.</b> Underground Utilities in Barrow, Alaska, W85-04925	1809 6A	<b>BRUTON, J. E.</b> Spectral Attenuation and Irradiance in the Laurentian Great Lakes, W85-01757	1804 2H	<b>BURICZ, M.</b> Heavy Metals in the Aquatic Environment of Some Water Bodies of the Lublin Coal Basin, W85-00232	1801 5B
<b>BRUGMANN, L.</b> Electrochemical Speciation of Trace Metals in Sea Water, W85-02308	1805 7B	<b>BRUTSAERT, W.</b> Applicability of Effective Parameters for Unsteady Flow in Nonuniform Aquifers, W85-05498	1810 2F	<b>BUCCI, G.</b> Differential Pulse Polarographic Determination of Nitrilotriacetic Acid in Natural Waters and Waste Water Effluents, W85-06254	1812 5A
<b>BRUHN, G.</b> Observations from the Execution of Water Inspections in the Schwerin District (Erfahrungen bei der Durchfahrung von Gewasserschauen im Bezirk Schwerin), W85-03529	1807 6E	<b>BRUTSAERT, W. H.</b> Assessment of Steady-State Propane-Gas Tracer Method for Reaeration Coefficients - Coweselon Creek, New York, W85-00838	1802 5G	<b>BUCHAK, E. M.</b> User Guide for CE-QUAL-ELV2: A Longitudinal-Vertical, Time-Varying Estuarine Water Quality Model, W85-06957	1812 2L
<b>BRUMBAUGH, W. G.</b> National Contaminant Biomonitoring Program: Concentrations of Seven Elements in Freshwater Fish, 1978-1981, W85-07161	1812 5B	<b>BRUTSCH, W. A.</b> Considerations Involved in the Reactivation of an Existing Water Supply, W85-07056	1812 5F	<b>BUCHANAN, J. A.</b> Control of Suspended Solids in Open Cooling Water Systems, W85-04820	1809 5F
<b>BRUMMER, J.</b> Rainfall Events as Paths of a Stochastic Process: Problems of Design Storm Analysis, W85-01684	1804 2B	<b>BRUVOLD, W. H.</b> Evaluation of Public Notification Requirements in California, W85-06583	1812 6E	<b>BUCHANAN-MAPPIN, J. M.</b> Detection of Giardia Cysts at Low Concentrations in Water Using Nucleopore Membranes, W85-06225	1812 5A
<b>BRUNE, D. E.</b> Inorganic Carbon Limited Growth Kinetics of Some Freshwater Algae, W85-04977	1810 2H	<b>BRUX, G.</b> Concrete in Hydraulic Engineering for a Better Environment (Beton im Wasserbau fur bessere Umwelt), W85-01861	1804 8F	<b>Sludge Application to Land Compared with a Pasture and a Hayfield: Reduction of Biological Health Hazard Over Time,</b> W85-03863	1808 5E
<b>BRUNELLE, P. E.</b> Flood Routing in Rivers by Transfer Function Identification, W85-00523	1802 2E	<b>Sellrain-Silz Group of Power Stations,</b> W85-01364	1803 8A	<b>BUCHANAN, S.</b> Pure O2 Retrofit Doubles Plant's Capacity, W85-04953	1809 5D
<b>BRUNER, F.</b> Sample Enrichment for Gas Chromatographic Mass Spectrometric Analysis of Polynuclear Aromatic Hydrocarbons in Water and in Organic Mixtures, W85-03411	1807 5A	<b>BRUYAN, C. F.</b> Water Quality and the Rotifer Populations in the Atchafalaya River Basin, Louisiana, W85-00399	1801 5C	<b>BUCHANAN, T.</b> Evaluation of Fisherman Benefits Stemming from Special Use Fishery Management Programs, W85-01831	1804 6B
<b>BRUNET, R.</b> Oxidation of Organic Compounds Through the Combination Ozone-Hydrogen Peroxide, W85-06212	1812 5F	<b>BRYAN, R. B.</b> Remote Semiautomatic Instrumentation for Intermittent Streamflow Measurement and Suspended Sediment Sampling, W85-05461	1810 2E	<b>BUCHANAN, T. J.</b> Highlights of the 1983 Federal-State Cooperative Water Resources Program, W85-01829	1804 9D
<b>BRUNING, C.</b> Application of Derivative Spectroscopy in Bioassays Estimating Algal Available Phosphate in Lake Sediments, W85-02615	1805 5A	<b>BRYAN, W. J.</b> Migration of Chlorophenolic Compounds at the Chemical Waste Disposal Site at Alkali Lake, Oregon - I. Site Description and Ground-Water Flow, W85-02693	1805 5B	<b>BUCHHOLZ, N.</b> Determination of Nitrate in Waters by Means of Chromotropic Acid (Bestimmung von Nitrat in Gewässern mit Hilfe von Chromotropsäure), W85-06758	1812 5A
<b>BRUNNER, C. W.</b> Nonsteady-State-Biofilm Process for Advanced Organics Removal, W85-01658	1804 5D	<b>BRYANT, C. W.</b> Benthic Stabilization of Organic Carbon and Nitrogen: The Development of Interstitial Profiles, W85-03873	1808 5D	<b>BUCHLEITER, G. W.</b> Integrated Water-Energy Management System for Center Pivot Irrigation: Functional Requirements, W85-04742	1809 7C
<b>BRUNO, R. O.</b> Longshore Sand Transport Study at Channel Islands Harbor, California, W85-06918	1812 2J			<b>Integrated Water-Energy Management System for Center Pivot Irrigation: Implementation,</b> W85-04743	1809 7C

**AUTHOR INDEX**

**BUCHOLZ, J. R.**

<b>BUCHOLZ, J. R.</b>			
New Continuously Monitored Collection System for Liquid Industrial Wastes, W85-03872	1808	8A	
<b>BUCHS, A.</b>			
5-alpha(H)-Cholestan-3-alpha-ol in Sediments: Characterization and Geochemical Significance, W85-04759	1809	2K	
<b>BUCHSBAM, A. P.</b>			
Federalism and the Wild and Scenic Rivers Act: Now You See It, Now You Don't, W85-04375	1808	6E	
<b>BUCKHOUSE, J. C.</b>			
Coliforms as an Indicator of Water Quality in Wildland Streams, W85-05958	1811	5A	
<b>BUCKLER, D. R.</b>			
Fate of Kepone and Mirex in the Aquatic Environment, W85-00160	1801	5B	
<b>BUCKLEY, C. B.</b>			
Potable Water: Cost Effective Treatment and Control, W85-01525	1803	5F	
<b>BUCKLEY, J. J.</b>			
Output Increase from Existing Hydroelectric Plants, W85-03058	1806	4A	
<b>BUCKS, D. A.</b>			
Consumptive Use of Water by Major Crops in the Southwestern United States, W85-05346	1810	2I	
Crop Water Stress Index, Soil Water, and Rubber Yield Relations for the Guayule Plant, W85-03361	1807	2I	
Water Management for Guayule Rubber Production, W85-06085	1811	3F	
<b>BUDD, K.</b>			
Responses of Certain Freshwater Planktonic Algae to Fluoride, W85-01176	1803	5C	
<b>BUDD, M. D.</b>			
High Mortality of the Larvae of the Common Mussel at Low Concentrations of Tributyltin, W85-03239	1807	5C	
<b>BUELL, G. R.</b>			
Water Resources Data, Georgia, Water Year 1982, W85-01938	1804	2E	
<b>BUERG, K.</b>			
Sludge Treatment at the Wastewater-Treatment Facility in the City of Pecs (Schlammbehandlung in der Abwasserreinigungsanlage der Stadt Pecs), W85-03463	1807	5D	
<b>BUFFLE, J.</b>			
Importance of Speciation Methods in Analytical Control of Water Treatment Processes With Application to Fluoride Removal From Waste Waters, W85-04485	1809	5A	
Natural Organic Matter and Metal-Organic Interactions in Aquatic Systems, W85-05326	1810	2K	
<b>BUGENIG, D. C.</b>			
Electrical Resistivity Studies to Delimit Zones of Acceptable Ground Water Quality, W85-03176	1806	2B	
<b>BUIKEMA, A. L. JR.</b>			
Stressed Stream Ecosystem: Macroinvertebrate Community Integrity and Microbial Trophic Response, W85-00415	1801	5C	
<b>BUISHAND, T. A.</b>			
Effect of Seasonal Variation of Serial Correlation on the Extreme Value Distribution of Rainfall Data, W85-07068	1812	2B	
Tests for Detecting a Shift in the Mean of Hydrological Time Series, W85-02458	1805	2A	
<b>BUISSON, R. S. K.</b>			
Determination of Chlorinated Phenols in Water, Wastewater, and Wastewater Sludge by Capillary GC/ECD, W85-02810	1806	5A	
<b>BUKATA, R. P.</b>			
Spectral Attenuation and Irradiance in the Laurentian Great Lakes, W85-01757	1804	2H	
<b>BUKHAIROV, R. KH.</b>			
Selection and Substantiation of Effective Drainage Protection of the Gate Works of the Diverion Tunnels of the Rogun Hydroelectric Station, W85-05027	1810	8A	
<b>BUKHARTSEV, V. N.</b>			
General Method of Calculating Stability of Earth Slopes within the Scope of the Two-Dimensional Problem, W85-01145	1803	8D	
<b>BUL'ON, V. V.</b>			
Photosynthetic Activity of Chlorophyll a in Freshwater Plankton, W85-03718	1807	2H	
<b>BULATOV, G. YA.</b>			
Operating Conditions of Earth Dams on Undermined Territories, W85-00443	1801	8D	
<b>BULL, A. T.</b>			
Distribution of Bacterial Plasmids in Clean and Polluted Sites in a South Wales River, W85-00094	1801	5C	
<b>BULL, M. A.</b>			
Evaluation of Single- and Separated-Phase Anaerobic Industrial Wastewater Treatment in Fluidized Bed Reactors, W85-02735	1806	5D	
<b>BULL, R. J.</b>			
Assessment of Maternal Toxicity, Embryotoxicity and Teratogenic Potential of Sodium Chlorite in Sprague-Dawley Rats, W85-01201	1803	5F	
Metabolism and Pharmacokinetics of Alternate Drinking Water Disinfectants, W85-01200	1803	5F	
Toxicological Effects of Chlorine Dioxide, Chlorite and Chlorate, W85-01199	1803	5F	
Use of Biological Assay Systems to Assess the Relative Carcinogenic Hazards of Disinfection By-Products, W85-01218	1803	5F	
<b>BULLEID, N. C.</b>			
Deoxygenation and Remineralization Above the Sediment-Water Interface; an In Situ Experimental Study, W85-02288	1805	2H	
<b>BULSON, P.</b>			
Oxidation of Organic Compounds in Solvent-Refined Coal II Wastewater Via Ultraviolet Irradiation, W85-05273	1810	5D	
<b>BULSON, P. C.</b>			
Removal and Inactivation of Bacteria During Alum Treatment of a Lake, W85-02602	1805	5G	
<b>BULTHUIS, D. A.</b>			
Suspended Sediments and Nutrients in Water Ebbing from Seagrass-Covered and Denuded Tidal Mudflats in a Southern Australian Embayment, W85-04856	1809	2L	
<b>BULYATOV, G. YA.</b>			
Improvement of the Construction of Earth Structures, W85-01144	1803	8D	
<b>BUNDGAARD, E.</b>			
Nitrification and Phosphorus Removal From Trickling Filter Effluents, W85-03646	1807	5D	
<b>BUNN, S. E.</b>			
Seasonal Meromixis in Three Hypersaline Lakes on Rottnest Island, Western Australia, W85-01645	1804	2H	
<b>BUNTING, D. L. II</b>			
Effects of Acridine and Temperature on the Survival, Development, Growth, and Reproduction of Diaptomus clavipes Schacht, W85-03222	1807	5C	
<b>BUNYAN, A.</b>			
Design of a Water Resources Training Program for Operation, Maintenance and Management, W85-06308	1812	9A	
<b>BURBA, R. P.</b>			
Cast Concretes with Frostproofing Additives in Underground Construction, W85-00463	1801	8F	
<b>BURBANK, D. E.</b>			
Survey for Viruses from Fresh Water That Infect a Eucaryotic Chlorella-Like Green Alga, W85-07138	1812	2H	
<b>BURBANK, N. C.</b>			
Oxidation of a Corn-Milling Wastewater with Hydrogen Peroxide, W85-05563	1810	5D	
<b>BURBRIDGE, H. K.</b>			
Application of Parametric Analysis to Water Supply, W85-06952	1812	6C	
<b>BURCH, D. W.</b>			
Optimization of Biological Recycling of Plant Nutrients in Livestock Waste by Utilizing Waste Heat from Cooling Water, W85-06983	1812	5D	
<b>BURCHI, S.</b>			
Legislation on Domestic and Industrial Uses of Water: A Comparative Review, W85-01242	1803	6E	
<b>BURCKLE, J.</b>			
Oil Shale - Potential Environmental Impacts and Control Technologies, W85-00285	1801	5C	
<b>BURIDGE, R. J.</b>			
Relationship Between Commercial and Recreational Use of Navigation Locks on the Upper Mississippi River, W85-02985	1806	6D	
<b>BURDY, R. J.</b>			
Drinking Water Supplies, Protection Through Watershed Management, W85-06934	1812	5G	
<b>BURGER, J.</b>			
Avian Utilisation on Six Salt Marshes in New Jersey, W85-00120	1801	2L	
<b>BURGES, S. J.</b>			
Cyclic Storage: A Preliminary Assessment, W85-00311	1801	4B	

## AUTHOR INDEX

**BUSCHHOFF, H.**

**BURKE, J. M.**  
Distribution of Fishes in the Brodhead Creek  
Drainage Monroe County, Pennsylvania,  
W85-03067 1806 2H

**BURKE, V.**  
Isolation of Aeromonas hydrophila from a Metropolitan Water Supply: Seasonal Correlation with Clinical Isolates,  
W85-02596 1805 5F

Isolation of Aeromonas spp. from an Unchlorinated Domestic Water Supply,  
W85-02597 1805 5F

**BURKETT, H. D.**  
Stability in Water of a New Chloramine Disinfectant as a Function of pH, Temperature, and Water Quality,  
W85-01374 1803 5F

Tendency of a New Water Disinfectant to Produce Toxic Trihalomethanes,  
W85-01376 1803 5F

**BURKHARDT, L.**  
Desorption and Coagulation of Trace Elements During Estuarine Mixing,  
W85-03208 1806 2K

**BURKIMSHER, M.**  
Investigations of Glacier Hydrological Systems Using Dye Tracer Techniques: Observations at Pasterzenegletscher, Austria,  
W85-03344 1807 2C

**BURLEY, M.**  
Lead in Umbilical Blood, Indoor Air, Tap Water, and Gasoline in Boston,  
W85-03339 1807 5C

**BURMAN, R.**  
Elevation - A Bias Error in SCS Blaney Criddle ET Estimates,  
W85-03373 1807 2D

**BURMATOVA, E. A.**  
Some Results of Calculating the Balance of Mineral Substances of the Kama Reservoir and its Stretches,  
W85-04130 1808 2H

**BURMEISTER, I. L.**  
Water Resources Data, Iowa, Water Year 1982,  
W85-01931 1804 2E

**BURN, D. H.**  
River Flow Forecasting Model For Sturgeon River,  
W85-05786 1810 2E

**BURNESS, H. S.**  
Practically Irrigable Acreage and Economic Feasibility: The Role of Time, Ethics, and Discounting,  
W85-01251 1803 6E

**BURNET, A. M. R.**  
Limnological Changes in a Small Lake Stocked with Grass Carp,  
W85-03071 1806 4A

**BURNET, R.**  
Use of Aerial Photogrammetry for Traditional Surveys of Fluctuations in Glacial Spits (Utilisation de la Photogrammetrie Aerienne pour les Relevés Traditionnels de Fluctuations des Langues Glaçaires),  
W85-05020 1810 2C

**BURNETT, D. L. JR.**  
Surface Water and Nuisance Law: A Proposed Synthesis,  
W85-01307 1803 6E

**BURNS, C. W.**  
Invertebrates, Macroalgae, and Chemical Features in Morainic Ponds near Lakes Tekapo and Ohau, Including New Distribution Records of Crustaceans,  
W85-03073 1806 2H

**BURNS, J. C.**  
Swine Lagoon Effluent Applied to 'Coastal' Bermudagrass: II. Effects on Soil,  
W85-06612 1812 5D

Swine Lagoon Effluent Applied to 'Coastal' Bermudagrass: III. Irrigation and Rainfall Runoff,  
W85-06613 1812 5D

**BURNS, L. A.**  
Fate of Chemicals in Aquatic Systems: Process Models and Computer Codes,  
W85-06765 1812 5B

**BURNS, S.**  
Statistical Comparison of a Direct Filtration and a Conventional Water Treatment Facility in the Intermountain Region,  
W85-06324 1812 5F

**BUROS, O. K.**  
History of Desalting Water in the Virgin Islands,  
W85-06692 1812 3F

**BURRELL, J. L.**  
Limnology of the Lago Grande de Estanya (Huesca) (Limnología del Lago Grande de Estanya (Huesca)),  
W85-05746 1810 2H

**BURRELL, R. E.**  
Detection and Analysis of Interactions between Atrazine and Sodium Pentachlorophenol with Single and Multiple Algal-Bacterial Populations,  
W85-05107 1810 5C

**BURRESS, R. M.**  
Aquatic Biota of Bank Stabilization Structure on the Missouri River, North Dakota,  
W85-06902 1812 6G

**BURRIS, B. E.**  
Process Design Manual for Dewatering Municipal Wastewater Sludges,  
W85-05352 1810 5D

**BURRIS, D. R.**  
Evaluation of Elutriate Test Parameters for an Organic Hydrophobic Pollutant, Kepone,  
W85-01319 1803 5A

**BURROUGHS, J. N.**  
Factors Related to Algal Biomass in Missouri Ozark Streams,  
W85-05667 1810 2H

**BURROWS, E. P.**  
Chromatographic Trace Analysis of Guanidine, Substituted Guanidines and S-Triazines in Water,  
W85-02303 1805 5A

**BURROWS, I. G.**  
Heavy Metals in Water, Sediments and Invertebrates from a Metal-Contaminated River Free of Organic Pollution,  
W85-00988 1802 5C

**BURROWS, R. L.**  
Sediment Transport in the Tanana River near Fairbanks, Alaska, 1980-81,  
W85-01788 1804 2J

Sediment Transport in the Tanana River near Fairbanks, Alaska, 1982,  
W85-01769 1804 2J

**BURSHTEIN, G. I.**  
Use of a Helium Survey for Evaluating the State of Groundwaters,  
W85-04110 1808 2F

**BURSILL, D. B.**  
Gel Permeation Chromatography of Humic Acid; Problems Associated with Sephadex Gel,  
W85-02920 1806 3A

Henry's Law Constants for the Trihalomethanes: Effects of Water Composition and Temperature,  
W85-01124 1803 5F

**BURT, R. J.**  
Problems in Estimating Self-Supplied Industrial Water Use by Indirect Methods-The California Example,  
W85-03957 1808 6D

**BURT, S. D.**  
UK Drought 1984,  
W85-03731 1807 4A

**BURTON, D. T.**  
Avoidance Responses of Estuarine Fish Exposed to Heated-Dehlorinated Power Plant Effluents,  
W85-01127 1803 5C

Comparison of Avoidance Responses of an Estuarine Fish, Fundulus heteroclitus, and Crustacean, Palaemonetes pugio, to Bis(Tri-N-Butyltin)Oxide,  
W85-06887 1812 5C

Evaluation of the Potential Toxicity of Treated Bleached Kraft Mill Effluent To Striped Bass (*Morone saxatilis* Walbaum) Larvae Exposed Through Metamorphosis to the Juvenile Stage,  
W85-02908 1806 5C

Uptake, Elimination, and Metabolism of 14C-Picric Acid and 14C-Picramic Acid in the American Oyster (*Crassostrea virginica*),  
W85-03221 1807 5B

**BURTON, N. F.**  
Distribution of Bacterial Plasmids in Clean and Polluted Sites in a South Wales River,  
W85-00094 1801 5C

**BURTON, T. M.**  
Effects of Nitrate, Phosphate and Potassium Fertilization on Growth and Nutrient Uptake Patterns of *Phragmites australis* (Cav.) Trin. ex Steudel,  
W85-05609 1810 2H

Influence of Acid Precipitation on Stream Invertebrates,  
W85-01807 1804 5C

**BUSCH, A. W.**  
Chemical Reactor Design Theory and Biological Treatment of Industrial Wastes: Is There a Gap,  
W85-05441 1810 5D

**BUSCH, D. E.**  
Temporal Succession in a Desert Stream Ecosystem Following Flash Flooding,  
W85-00270 1801 2H

**BUSCH, W. H.**  
Effects of Bottom Currents and Fish on Sedimentation in a Deep-water, Lacustrine Environment,  
W85-04309 1808 2J

**BUSCHHOFF, H.**  
Differential Pulse Stripping-Voltammetry for Routine Heavy-Metal Analysis of Drinking

## AUTHOR INDEX

**BUSCHHOFF, H.**

Water (Differentielle Pulsinversvoltammetrie fur die Schwermetallanalytik von Trinkwasser),  
W85-03719 1807 5A

**BUSCHMAN, R. G.**  
Vertical Temperature Distribution in Lakes,  
W85-01651 1804 2H

**BUSENHART, H.**  
Construction of the Alicura Hydroelectric Facility in Argentina (Der Bau der Wasserkraftanlage Alicura in Argentinien),  
W85-01862 1804 8A

**BUSH, B.**  
PCB Congener Analysis of Water and Caddisfly Larvae (Insecta: Trichoptera) in the Upper Hudson River by Glass Capillary Chromatography,  
W85-04350 1808 5A

**BUSH, P. B.**  
Simulation of Herbicide Concentrations in Stormflow From Forested Watersheds,  
W85-04991 1810 2A

**BUSHWAY, R. J.**  
High-Performance Liquid Chromatographic Analysis of Rotenone and Rotenonone in Water by Direct Injection,  
W85-03406 1807 5A

**BUSKEY, E.**  
Effects of Copper and Cadmium on Growth, Swimming and Predator Avoidance in Eurytemora affinis (Copepoda),  
W85-01900 1804 5C

**BUSO, D. C.**  
Potential for Acidification of Six Remote Ponds in the White Mountains of New Hampshire,  
W85-01834 1804 5B

**BUSSE, M.**  
Antibacterial Effects on Predominant Taxa in the Activated Sludge System of a Chemical Combine (Die Hemmstoffresistenz dominierender Bakteriengruppen in der Belebtschlamm-Anlage eines Chemiewerks),  
W85-02738 1806 5D

**BUSSER, F.**  
Quantitative Structure-Activity Relationships and Mixture Toxicity of Organic Chemicals in Photobacterium phosphoreum: The Microtox Test,  
W85-05809 1810 5C

**BUT, L. L.**  
Toxicity of Condensate from Polyester II-520 Production for *Daphnia magna* Straus and Its Effect on Self-Purification (Toksičnost' Kondensata ot Proizvodstva Poliefira P-520 Dlya *Daphnia magna* Straus i Ego Vliyanie na Protsess Samoochishcheniya),  
W85-06461 1812 5C

**BUTH, D.**  
Nitrite Build-Up in Activated Sludge Resulting from Combined Temperature and Toxicity Effects,  
W85-02586 1805 5D

Nitrite Build-Up in Activated Sludge Resulting from Temperature Effects,  
W85-02585 1805 5D

**BUTLER, D. R.**  
Inexpensive Balance for Measuring Throughfall in Cereals,  
W85-01074 1802 7B

**BUTLER, E. C. V.**  
Application of Ion-Exchange Chromatography with an Ion-Selective Electrode Detector to Iodine Determination in Natural Waters,  
W85-04654 1809 5A

**BUTLER, G. A.**  
Membrane-Enhanced Anaerobic Digesters,  
W85-05282 1810 5D

**BUTLER, J. R.**  
Water Main Project Serves Expanding Hi-tech Area,  
W85-00552 1802 8A

**BUTLER, L. L.**  
Effect of Pond Storage on the Hydrologic and Nutrient Output of a Forested Watershed in Northern Vermont,  
W85-00612 1802 5A

**BUTLER, L. M.**  
Information for State Groundwater Quality Policy-making,  
W85-06535 1812 6A

**BUTLER, M. I.**  
Invertebrates, Macroalgae, and Chemical Features in Morainic Ponds near Lakes Tekapo and Ohau, Including New Distribution Records of Crustacea,  
W85-03073 1806 2H

**BUTORIN, N. V.**  
Overview of the US-USSR Joint Agreement on Environmental Protection Related to Prevention of Water Pollution,  
W85-02881 1806 6E

Soviet-American Cooperation in the Field of Protecting Water from Pollution,  
W85-02882 1806 6E

**BUTT, M. A.**  
Analysis of Leaky Aquifer Pumping Test Data: An Automated Numerical Solution Using Sensitivity Analysis,  
W85-00315 1801 2F

Aquifer-Parameter Evaluation from Variable-Rate Pumping Tests Using Convolution and Sensitivity Analysis,  
W85-05842 1810 2F

**BUTTE, W.**  
Pentachlorophenol and Tetrachlorophenols in Wadden Sediment and Clams *Mya arenaria* of the Jadebusen After a 14-Year Period of Wastewater Discharge Containing Pentachlorophenol,  
W85-05028 1810 5C

**BUTTERWORTH, B. C.**  
Tetrachloro-9H-Carbazole, a Previously Unrecognized Contaminant in Sediments of the Buffalo River,  
W85-00927 1802 5C

**BYRCROFT, B. M.**  
Oxygen Budget for an Urban Estuary,  
W85-00777 1802 2L

**BYNOE, M. C.**  
Physical and Geochemical Characteristics of Suspended Solids, Wilton Creek, Ontario,  
W85-02056 1804 2H

**BYRD, J. T.**  
Geochemical Behavior of Inorganic Germanium in an Unperturbed Estuary,  
W85-04760 1809 2K

**CABELLI, V. J.**  
Effect of Fecal Pollution on *Vibrio parahaemolyticus* Densities in an Estuarine Environment,  
W85-07132 1812 5C

**CABLE, K.**  
Developing Cost Estimating Methods for Surface-Water Intake Structures,  
W85-06951 1812 6C

**CABRERA, F.**  
Acid Mine-Water and Agricultural Pollution in a River Skirting the Donana National Park, (Guadiana River, South West Spain),  
W85-04293 1808 5B

**CABRERA, G.**  
Space-Time Finite-Element Model for Two-Stream Unconfined Aquifer Systems,  
W85-02491 1805 2F

**CADA, G. F.**  
Effectiveness of Hydrotreatment in Reducing the Toxicity of a Coal Liquefaction Product to Juvenile Channel Catfish,  
W85-07152 1812 5G

Small-Scale Hydroelectric Power for Developing Countries: Methodology of Site-Selection Based on Environmental Issues,  
W85-00647 1802 6B

**CADDY, D. E.**  
On-Line Monitoring, Data Management and Forecasting System for the Bedford Ouse River Basin,  
W85-01408 1803 7B

**CADEE, G. C.**  
Particulate and Dissolved Organic Carbon and Chlorophyll A in the Zaire River, Estuary and Plume,  
W85-03676 1807 2L

**CADENA, F.**  
Removal of Volatile Organic Pollutants from Rapid Streams,  
W85-01738 1804 5B

**CADET, D. L.**  
Precipitable Water over Africa and the Eastern Central Atlantic Ocean During the 1979 Summer,  
W85-04024 1808 2B

**CADLE, S. H.**  
Effect of Local Emissions on Wet and Dry Deposition in Southeastern Michigan,  
W85-01298 1803 5B

**CAHAL, D. I.**  
Impact of Discharges from Point and Nonpoint Sources on Water Quality of the Upper Reedy River near Greenville, South Carolina,  
W85-03895 1808 5B

**CAHILL, J. M.**  
Brief Statement on the Hydrology of the Sampit River Area near Georgetown, South Carolina,  
W85-00620 1802 5B

**CAILLAT, J. M.**  
Ecological Problems Related to the Loire Estuary Development,  
W85-00575 1802 6G

**CAIN, C. B.**  
Impact of Priority Pollutants on Publicly Owned Treated Works Processes: A Literature Review,  
W85-05300 1810 5F

**CAIN, J. R.**  
Effects of Five Insecticides on Zygospore Germination and Growth of the Green Alga *Chlamydomonas moewusii*,  
W85-02966 1806 5C

**CAIN, R. K.**  
Effects of Five Insecticides on Zygospore Germination and Growth of the Green Alga *Chlamydomonas moewusii*,  
W85-02966 1806 5C

**CAINE, N.**  
Variation in pH During Summer Storms near the Continental Divide in Central Colorado, U.S.A.,  
W85-05766 1810 2K

**CAIRE, T. P.**  
Biological Treatability of Underground Coal Gasification Wastewater,  
W85-05436 1810 5D

## AUTHOR INDEX

**CAMPBELL, R. N. B.**

<b>CAIRNS, J.</b>						
Ionoregulatory and Toxicological Responses of Stonfly Nymphs (Plecoptera) to Acidic and Alkaline pH, W85-05108	1810	5C				
<b>CAIRNS, J. JR.</b>						
Evaluating the Options for Water Quality Management, W85-06232	1812	5G				
Long-Term Patterns of Protozoan Colonization in Douglas Lake, Michigan, W85-06134	1811	2H				
Maintenance of Structural Integrity in Freshwater Protozoan Communities Under Stress, W85-01012	1802	5C				
Protozoan Colonization Rates and Trophic Status of Some Freshwater Wetland Lakes, W85-04657	1809	2H				
Structural, Functional, and Recovery Responses of Stream Invertebrates to Fly Ash Effluent, W85-01491	1803	5C				
<b>CAITHNESS, T. A.</b>						
History and Present Vegetation of the Macrophyte Swamp at Pukepuke Lagoon, W85-03023	1806	2H				
<b>CAJANDER, V.-R.</b>						
Mercury in Some Higher Aquatic Plants and Plankton in the Estuary of the River Kokemäenjoki, Southern Finland, W85-02845	1806	5B				
<b>CALABRESE, A.</b>						
Effects of Long-Term Exposure to Silver or Copper on Growth, Bioaccumulation and Histopathology in the Blue Mussel <i>Mytilus edulis</i> , W85-01355	1803	5C				
<b>CALABRESE, E. J.</b>						
Comparison of How the United States and Canada Set Drinking Water Regulations, W85-00942	1802	6E				
Effects of Trichloroacetic Acid, a New Contaminant Found from Chlorinating Water with Organic Material, on Dragonfly Nymphs, W85-04478	1809	5C				
Health Effects Among Newborns After Prenatal Exposure to ClO <sub>2</sub> -Disinfected Drinking Water, W85-01203	1803	5F				
Laboratory Assessment of the Toxicity of Urban Runoff on the Fathead Minnow ( <i>Pimephales promelas</i> ), W85-02124	1804	5C				
Lack of Nephrotoxicity in the Rat by Sodium Chlorite, a Possible Byproduct of Chlorine Disinfection in Drinking Water, W85-02119	1804	5F				
Toxicological Effects of Chlorite in the Mouse, W85-01202	1803	5F				
<b>CALAMARI, D.</b>						
Immune Response in Rainbow Trout <i>Salmo gairdneri</i> after Long-Term Treatment with Low Levels of Cr, Cd and Cu, W85-02589	1805	5C				
<b>CALCAGNO, T. H.</b>						
Sedimentation Processes in an Impoundment, Union Lake, New Jersey, W85-06162	1811	2J				
<b>CALCUTT, T.</b>						
Sewage Sludge Treatment and Disposal - The Way Ahead, W85-04455	1809	5E				
<b>CALDER, I. R.</b>						
Use of a Wet-Surface Weighing Lysimeter System in Rainfall Interception Studies of Heather ( <i>Calluna vulgaris</i> ), W85-01154	1803	2I				
<b>CALDWELL, L. K.</b>						
Garrison Diversion: Constraints on Conflict Resolution, W85-06532	1812	6E				
<b>CALF, G. E.</b>						
Evaluation of Tracer Dilution Techniques for Gauging of Rivers in Flood, W85-03085	1806	2E				
<b>CALKINS, D. J.</b>						
Ice Cover Melting in a Shallow River, W85-01713	1804	2C				
<b>CALL, D. J.</b>						
Toxicity, Uptake, and Elimination of the Herbicides Alachlor and Dinoseb in Freshwater Fish, W85-01296	1803	5C				
<b>CALLAWAY, R. J.</b>						
Dissolved Silicon in the Yaquina Estuary, Oregon, W85-00661	1802	2K				
<b>CALLENDER, E.</b>						
Benthic Phosphorus Regeneration in the Potomac River Estuary, W85-02088	1804	2L				
Nutrient Exchange across the Sediment-Water Interface in the Potomac River Estuary, W85-00655	1802	2L				
<b>CALOMIRIS, J. J.</b>						
Association of Metal Tolerance with Multiple Antibiotic Resistance of Bacteria Isolated from Drinking Water, W85-02133	1804	5F				
<b>CAMARA, A. S.</b>						
Qual II Model, W85-02821	1806	5A				
<b>CAMERON, D. A.</b>						
Experimental Study of Ozonation Followed by Slow Sand Filtration for the Removal of Humic Colour from Water, W85-03050	1806	5D				
<b>CAMERON, F. X.</b>						
International Cooperation and Acid Rain Pollution: Establishing the Framework for Control, W85-01670	1804	6E				
<b>CAMERON, J. D.</b>						
Leachate Disposal Alternatives in a Sole Source Aquifer Environment, W85-05373	1810	5E				
<b>CAMERON, J. J.</b>						
Economic Analysis of Water and Sanitation Alternatives for Communities in Northern Canada, W85-04917	1809	6A				
<b>CAMERON, S. C.</b>						
Evidence for the Role of Copper in the Injury Process of Coliform Bacteria in Drinking Water, W85-02594	1805	5F				
New Medium for Improved Recovery of Coliform Bacteria from Drinking Water, W85-00103	1801	5A				
<b>CAMP, C. R.</b>						
Tillage Effects on Crop Yield in Coastal Plain Soils, W85-06079	1811	2G				
<b>CAMPANA, M. E.</b>						
Groundwater Residence Times and Recharge Rates Using a Discrete-State Compartment Model and 14C Data, W85-01174	1803	2F				
Model-Derived Estimates of Groundwater Mean Ages, Recharge Rates, Effective Porosities and Storage in a Limestone Aquifer, W85-06047	1811	2F				
<b>CAMPANELLA, R. G.</b>						
Piezometer-Friction Cone Investigation at a Tailings Dam, W85-03428	1807	8A				
<b>CAMPBELL, A. J.</b>						
Prediction of Peak Flows for Culvert Design on Small Watersheds in Oregon, W85-01820	1804	4A				
<b>CAMPBELL, E.</b>						
Mammal Surveillance System, W85-05311	1810	6G				
<b>CAMPBELL, G. R.</b>						
Industrial Waste Treatment Pilot Plants, W85-02550	1805	5D				
<b>CAMPBELL, G. S.</b>						
Infiltration Rate of Slot Mulches: Measurement and Numerical Simulation, W85-02868	1806	2G				
<b>CAMPBELL, H. J. JR.</b>						
Organics, Plastics, and Synthetics Industry Discharge: Performance and Regulations, W85-05769	1810	6E				
<b>CAMPBELL, H. W.</b>						
Sludge Incineration and Precipitant Recovery, Vol. IV: Pilot Scale Multiple-Hearth Furnace Investigations, W85-06992	1812	5E				
<b>CAMPBELL, I. A.</b>						
Remote Semiautomatic Instrumentation for Intermittent Streamflow Measurement and Suspended Sediment Sampling, W85-05461	1810	2E				
<b>CAMPBELL, J.</b>						
Impact of Recent Court Decisions Concerning Water and Interstate Commerce on Water Resources of the State of New Mexico, W85-04192	1808	6E				
<b>CAMPBELL, J. A.</b>						
Dissolved Chromium in the St. Lawrence Estuary, W85-03633	1807	2L				
<b>CAMPBELL, J. C.</b>						
Investigation of the Potential of an Enzymatic Treatment of Pulp and Paper Mill Effluent to Facilitate Decolorization by Lime Precipitation, W85-05402	1810	5D				
<b>CAMPBELL, J. E.</b>						
Satellite-Tracked Current Drifters in Lake Michigan, W85-01760	1804	7B				
<b>CAMPBELL, K. L.</b>						
USDAHL Hydrologic Model, W85-05340	1810	2A				
<b>CAMPBELL, P. G. C.</b>						
Accumulation of Copper and Zinc in the Yellow Water Lily, <i>Nuphar variegatum</i> : Relationships to Metal Partitioning in the Adjacent Lake Sediments, W85-04837	1809	5B				
Aluminum Speciation in Surface Waters on the Canadian Pre-Cambrian Shield, W85-02634	1805	2K				
Relationships between the Partitioning of Trace Metals in Sediments and Their Accumulation in the Tissues of the Freshwater Mollusc <i>Elliptio complanata</i> in a Mining Area, W85-03308	1807	5B				
<b>CAMPBELL, R. N. B.</b>						
Determination of Minimum Discharge for O+ Brown Trout ( <i>Salmo trutta L.</i> ) Using a Velocity Response, W85-02505	1805	6G				

## AUTHOR INDEX

**CAMPBELL, W. F.**

**CAMPBELL, W. F.**  
Effects of Water and Salt Stress on Growth and Acetylene Reduction in Alfalfa, W85-03962 1808 2I

**CAMPER, A. K.**  
Evaluation of m-TT Agar as a Fecal Coliform Medium, W85-02598 1805 5A

**CAMPOS, H.**  
Limnological Study of Lake Ranco (Chile); Morphometry, Physics, Chemistry and Plankton, W85-00108 1801 2H

**CAMUFFO, D.**  
pH of the Atmospheric Precipitation in Venice, Related to Both the Dynamics of Precipitation Events and the Weathering of Monuments, W85-04362 1808 5B

**CAN, E. K.**  
Real-Time Reservoir Operations by Goal Programming, W85-01566 1803 6A

**CANAHL, F.**  
Concurrent Development of an Industrial Waste Pretreatment Program and Residual Solids Management Plan, W85-02572 1805 5D

**CANFIELD, D. E.**  
Elemental Residence Times in Acton Lake, Ohio, W85-02241 1805 2H  
Geochemistry of the Onyx River (Wright Valley, Antarctica) and its Role in the Chemical Evolution of Lake Vanda, W85-04369 1808 2H

**CANFIELD, D. E. JR.**  
Prediction of Chlorophyll a Concentrations in Florida Lakes: Importance of Aquatic Macrophytes, W85-00154 1801 2H  
Prediction of Secchi Disc Depths in Florida Lakes: Impact of Algal Biomass and Organic Color, W85-02477 1805 2H

Relations between Color and Some Limnological Characteristics of Florida Lakes, W85-01372 1803 2H

**CANNELL, R. Q.**  
Effects of Single and Multiple Waterloggings on the Growth and Yield of Winter Wheat on a Clay Soil, W85-06136 1811 2I

**CANNEY, P. J.**  
Bench-Scale Treatment of Lurgi Gasifier and H-Coal Wastewaters by the PACT System, W85-04037 1808 5D

**CANNON, G. A.**  
Observations of Currents and Water Properties in Commencement Bay, W85-06959 1812 2L

**CANNON, M. R.**  
Potential Effects of Surface Coal Mining on the Hydrology of the Bloomfield Coal Tract, Dawson County, Eastern Montana, W85-01791 1804 2F

**CANOY, M. J.**  
Effects of Freshwater Runoff on Nearshore Tropical Marine Fisheries, W85-00064 1801 5C  
Effects of Runoff from Undeveloped Versus Lightly Developed Watersheds on Tropical Planktonic Ecosystem, W85-01810 1804 5C

Remote Sensing of Subsurface Water Resources in the U.S. Virgin Islands, W85-00065 1801 7B

**CANTON, H.**  
Joint Effects of a Mixture of 14 Chemicals on Mortality and Inhibition of Reproduction of *Daphnia magna*, W85-03688 1807 5C  
Quantitative Structure-Activity Relationships and Toxicity Studies of Mixtures of Chemicals with Anesthetic Potency: Acute Lethal and Sublethal Toxicity to *Daphnia magna*, W85-00882 1802 5C

**CANTON, S. P.**  
Coal Mine Drainage Effects on a Lotic Ecosystem in Northwest Colorado, U.S.A., W85-00991 1802 5C  
Macroinvertebrates and Fish of a Colorado Stream During a Period of Fluctuating Discharge, W85-00295 1801 2H

**CANTOR, K. P.**  
Epidemiological Evidence of Carcinogenicity of Chlorinated Organics in Drinking Water, W85-01215 1803 5C

**CAOILLE, J. A.**  
Utilization of Shallow Geophysical Sensing at Two Abandoned Municipal/Industrial Waste Landfill on the Missouri River Floodplain, W85-03175 1806 5A

**CAPE, J. N.**  
Chemical Composition of Rainfall and Wet Deposition over Northern Britain, W85-03295 1807 5B  
Episodic Nature of Wet Deposited Sulphate and Acidity, W85-03292 1807 5B

**CAPIZZI, T.**  
Statistical Considerations in the Evaluation of Chronic Aquatic Toxicity Studies, W85-03971 1808 5A

**CAPLAN, P.**  
Rain Chemistry under the Plume from an Oil-Fired Power Plant - A Case Study, W85-01086 1802 5B

**CAPLE, R.**  
Bacterial Degradation of Selected Organics in Natural Waters of Northeastern Minnesota, W85-06863 1812 5B  
Use of Volatile Chloroorganics as a Measure of the Rehabilitation of the St. Louis River and Bay, W85-06867 1812 5A

**CAPLENAS, N. R.**  
Thermotolerant Non-fecal Source *Klebsiella pneumoniae*: Validity of the Fecal Coliform Test in Recreational Waters, W85-03747 1807 5A

**CAPOBIANCO, J. A.**  
Interaction Between Interstitial Water and Sediment in Two Cores of Lac Leman, Switzerland, W85-02084 1804 2H

**CAPONE, D. G.**  
Effects of Four Aromatic Organic Pollutants on Microbial Glucose Metabolism and Thymidine Incorporation in Marine Sediments, W85-06143 1811 5C  
Effects of Metals on Nitrogen Fixation and Denitrification in Slurries of Anoxic Saltmarsh Sediment, W85-02539 1805 5C  
Effects of Organic Pollutants on Methanogenesis, Sulfate Reduction and Carbon Dioxide Evolution in Salt Marsh Sediments, W85-04872 1809 5C

Groundwater Source of Nitrate in Nearshore Marine Sediments, W85-04616 1809 5B

**CAPPENBERG, T. E.**  
Carbon Flow Across the Sediment-Water Interface in Lake Vechten, The Netherlands, W85-02066 1804 2H  
Comparison of Bacterial Sulfate Reduction and Methanogenesis in the Anaerobic Sediments of a Stratified Lake-Ecosystem, W85-04703 1809 2H  
Kinetic Studies of Bacterial Sulfate Reduction in Freshwater Sediments by High-Pressure Liquid Chromatography and Microdistillation, W85-05053 1810 2H

Loosdrecht Lakes Restoration Project: Hydrology and Physico-Chemical Characteristics of the Lakes, W85-04545 1809 2H  
Loosdrecht Lakes Restoration Project: Sediment Phosphorus Distribution and Release from the Sediments, W85-04546 1809 2K

**CAPPON, C. J.**  
Content and Chemical Form of Mercury and Selenium in Lake Ontario Salmon and Trout, W85-04717 1809 5C

**CAPRAIS, J. C.**  
Hydrocarbons and Halogenated Hydrocarbons in Coastal Waters of the English Channel and the North Sea, W85-05862 1811 5A

**CAPRIO, V.**  
Ozonation of Aqueous Solutions of Nitrobenzene, W85-05829 1810 5D

**CARBALLADA, L. B.**  
Pressure and Source Size Effects on Cavitation Damage, W85-03014 1806 8C

**CARBERRY, J. B.**  
Flocculation Effects on Bound Water in Sludges as Measured by Nuclear Magnetic Resonance Spectroscopy, W85-05049 1810 5D

**CARBERRY, W. L.**  
Leavenworth, Washington Case: Environmental Concerns with a Water Treatment Plant Failure, W85-02723 1806 5B

**CAREY, G. F.**  
Numerical Noise in Ocean and Estuarine Models, W85-03475 1807 2L

**CAREY, J. H.**  
Aquatic Leeches (*Hirudinea*) as Bioindicators of Organic Chemical Contaminants in Freshwater Ecosystems, W85-01958 1804 5A

**CAREY, W. P.**  
Variability in Measured Bedload-Transport Rates, W85-06237 1812 2J

**CARIGNAN, R.**  
Sediment Geochemistry in a Eutrophic Lake Colonized by the Submersed Macrophyte *Myriophyllum spicatum*, W85-02633 1805 2H  
Trace Metals in Oxic Lake Sediments: Possible Adsorption onto Iron Oxyhydroxides, W85-04757 1809 5B

**CARKNER, R.**  
Trout Farming in Washington, W85-05337 1810 8I

## AUTHOR INDEX

CARTER, C. E.

<b>CARLBERG, G.</b>			
Acute Toxicity and Chemical Characteristics of Moderately Polluted Runoff from Highways, W85-00745	1802	5C	
<b>CARLEN, W. L.</b>			
Movement of Water in a Plinthic Paleudult Using a Bromide Tracer, W85-04957	1809	2G	
<b>CARLES, D.</b>			
Effects of Petroleum Hydrocarbons on the Cytochrome P450 Content of the Mollusc Bivalve <i>Mytilus galloprovincialis</i> , W85-01367	1803	5C	
<b>CARLILE, B. L.</b>			
Land Application of Kraft Paper Mill Sludges, W85-05395	1810	5E	
<b>CARLINE, R. F.</b>			
Responses of Fish Populations to Mitigation Structures in Two Small Channelized Streams in Ohio, W85-05877	1811	6G	
<b>CARLING, P. A.</b>			
Deposition of Fine and Coarse Sand in an Open-Work Gravel Bed, W85-00148	1801	2J	
<b>CARLSON, D. A.</b>			
Electrocoagulation of Potable Water, W85-02906	1806	5F	
Rapid BOD Measurement for Municipal Wastewater Samples using a Biofilm Electrode, W85-01739	1804	5D	
Removing Aquatic Humus from Norwegian Lakes, W85-06586	1812	5F	
Septic Tank Design, W85-05202	1810	5D	
<b>CARLSON, P. R.</b>			
Carbon and Nitrogen Primary Productivity in Three North Carolina Estuaries, W85-00665	1802	2L	
<b>CARLSON, R. M.</b>			
Facile Incorporation of Bromine into Aromatic Systems under Conditions of Water Chlorination, W85-03671	1807	5B	
Susceptibility of Environmentally Important Heterocycles to Chemical Disinfection: Reactions with Aqueous Chlorine, Chlorine Dioxide, and Chloramine, W85-02804	1806	5C	
<b>CARLSON, R. W.</b>			
Influence of pH, Dissolved Oxygen, Suspended Solids or Dissolved Solids upon Ventilatory and Cough Frequencies in the Bluegill <i>Lepomis macrochirus</i> and Brook Trout <i>Salvelinus fontinalis</i> , W85-00683	1802	5C	
<b>CARLSON, T. N.</b>			
Analysis of Precipitation Collected on a Sequential Basis, W85-04505	1809	5B	
Regional-Scale Estimates of Surface Moisture Availability from GOES Infrared Satellite Measurements, W85-06188	1812	7B	
<b>CARLTON, J. C.</b>			
Handling of Aluminum Forming Wastewater, W85-05236	1810	5D	
<b>CARLTON, R. G.</b>			
Effects of a Massive Swarm of Ants on Ammonium Concentrations in a Subalpine Lake, W85-00417	1801	2H	
<b>Forms and Distribution of Carbon in Sediments of Castle Lake, California, U.S.A., W85-02648</b>	1805	2H	
<b>Transformations of Nitrogen Following an Epilithic Nitrogen Fertilization in Castle Lake, CA: 1. Epilithic Periphyton Responses, W85-06397</b>	1812	2H	
<b>Vertical Profiles of Primary Productivity, Biomass and Physico-Chemical Properties in Meromictic Big Soda Lake, Nevada, W85-01468</b>	1803	2H	
<b>CARMICHAEL, G. J.</b>			
Confinement and Water Quality-Induced Stress in Largemouth Bass, W85-04680	1809	5C	
<b>CARMICHAEL, G. R.</b>			
Eulerian Modeling of the Transport and Chemical Processes Affecting Long-Range Transport of Sulfur Dioxide and Sulfate, W85-05315	1810	5B	
<b>CARMICHAEL, J. P.</b>			
Detection of False-Positives Among Total and Fecal Coliform Counts by Factorial Analysis of Correspondence, W85-04265	1808	5A	
<b>CARMICHAEL, W. W.</b>			
Toxic Blue-Green Algal Blooms in Europe: A Growing Problem, W85-03199	1806	5C	
Toxins from Freshwater Cyanobacteria, W85-06779	1812	5A	
<b>CARNAHAN, C. L.</b>			
Nonequilibrium and Equilibrium Sorption with a Linear Sorption Isotherm During Mass Transport through an Infinite Porous Medium: Some Analytical Solutions, W85-02488	1805	2F	
<b>CARNEY, J. H.</b>			
Parameter Constraints in a Stream Ecosystem Model: Incorporation of a Priori Information in Monte Carlo Error Analysis, W85-01302	1803	2H	
<b>CARNS, K. E.</b>			
Using Polymers with Direct Filtration, W85-06584	1812	5F	
<b>CARON, M.</b>			
Interaction between Discharge and Populations of Parr ( <i>Salmo salar</i> ) of the Matamec River, Quebec (Interaction Entre le Débit et les Populations de Tacons ( <i>Salmo salar</i> ) de la Rivière Matamec, Québec), W85-01492	1803	2H	
<b>CARONI, E.</b>			
Rainfall-Runoff-Sediment Yield Relation by Stochastic Modelling, W85-01138	1803	2J	
<b>CAROTHERS, S. W.</b>			
Recreational Impacts on Colorado River Beaches in Glen Canyon, Arizona, W85-02298	1805	5C	
<b>CAROTHERS, W. W.</b>			
Hydrogeochemistry of Big Soda Lake, Nevada: An Alkaline Meromictic Desert Lake, W85-00297	1801	2H	
<b>CARPENTER, J. W.</b>			
Preliminary Organic Carbon Budget for a Small Dystrophic Lake in Maritime Canada, W85-00989	1802	2H	
<b>CARPENTER, P. D.</b>			
Simultaneous Spectrophotometric Determination of Humic Acid and Iron in Water, W85-01077	1802	5A	
<b>CARPENTER, R.</b>			
210Pb-Derived Sediment Accumulation and Mixing Rates for the Greater Puget Sound Region, W85-06701	1812	2J	
<b>Hydrocarbon and Azaarene Markers of Coal Transport to Aquatic Sediments, W85-03056</b>	1806	5A	
<b>Hydrocarbons in Washington Coastal Sediments, W85-01915</b>	1804	5B	
<b>Mixing and Cycling of Uranium, Thorium and 210-Pb in Puget Sound Sediments, W85-03209</b>	1806	2L	
<b>Polyyclic Aromatic Hydrocarbons in Washington Coastal Sediments: An Evaluation of Atmospheric and Riverine Routes of Introduction, W85-02346</b>	1805	5B	
<b>CARPER, G. L.</b>			
Wind Resuspension of Sediments in a Prairie Lake, W85-03827	1808	2J	
<b>CARR, J. K.</b>			
Case-Control Cancer Mortality Study and Chlorination of Drinking Water in Louisiana, W85-01213	1803	5C	
<b>CARR, R. S.</b>			
Field Assessment of Biochemical Stress Indices for the Sandworm <i>Neanthes virens</i> (Sars), W85-05889	1811	5C	
<b>CARRERA, J.</b>			
Method for Optimal Observation Network Design for Groundwater Management, W85-02463	1805	4B	
<b>CARRIO, L. A.</b>			
Sludge Reduction by In-Plant Process Modification: New York City's Experiences, W85-07039	1812	5E	
<b>CARROLL, T. R.</b>			
Error Analysis of Airborne Gamma Radiation Soil Moisture Measurements, W85-01075	1802	2G	
<b>CARRUTHERS, D. J.</b>			
Acid Deposition in Rain over Hills, W85-03294	1807	5B	
<b>CARSEL, R. F.</b>			
Approximating Pollutant Transport to Ground Water, W85-00349	1801	5B	
Foliar Washoff of Pesticides (FWOP) Model: Development and Evaluation, W85-01441	1803	5B	
Potential Pesticide Contamination of Groundwater from Agricultural Uses, W85-06784	1812	5B	
<b>CARSON, M. A.</b>			
Meandering-Braided River Threshold: A Reappraisal, W85-02492	1805	2E	
<b>CARSWELL, W. J. JR.</b>			
Average Annual Fulfillment of Instream Uses, W85-03066	1806	6D	
<b>CARTER, C. E.</b>			
Corn Silage Response to Subsurface Drainage on Alluvial Soil, W85-04738	1809	2G	
Hydraulic Conductivity Measured Electronically in an Auger Hole, W85-04740	1809	2G	
Reducing Water Pollution with Subsurface Drainage, W85-03367	1807	5G	

## AUTHOR INDEX

**CARTER, C. W.**

**CARTER, C. W.**  
Interactions between Dissolved Humic and Fulvic Acids and Pollutants in Aquatic Environments, W85-06768 1812 5B

**CARTER, D. L.**  
Effect of Furrow Irrigation Erosion on Crop Productivity, W85-05192 1810 6G

**CARTER, J. A.**  
Design and Development of the Flood Storage and Amenity Reservoirs of the Rother Valley Country Park, W85-03883 1808 4A

**CARTER, J. C. H.**  
Diel and Seasonal Physico-Chemical Fluctuations in a Small Natural West African Lake, W85-03685 1807 2H

**CARTER, J. L.**  
Biodegradation of Chemical Plant Wastewater Containing Dimethylformamide, W85-05432 1810 5D

Effects of Copper on Production of Periphyton, Nitrogen Fixation and Processing of Leaf Litter in a Sierra Nevada, California, Stream, W85-06414 1812 5C

Effects of Copper on Species Composition of Periphyton in a Sierra Nevada, California, Stream, W85-00294 1801 5C

Treatment for Removal of Heavy Metal and Oil from a Piston Ring Manufacturing Waste, W85-05238 1810 5D

**CARTER, K. N. JR.**  
Migration of Pollutants in Groundwater. II. Adsorbable Pollutants and Numerical Dispersion Reduction, W85-06290 1812 5B

**CARTER, M. W.**  
Leaf Litter Processing in Aquatic Systems: A Two Variable Model, W85-00412 1801 2K

**CARTER, R. F.**  
Effects of the Drought of 1980-81 on Streamflow and on Ground-water Levels in Georgia, W85-01783 1804 2E

**CARTER, R. W. G.**  
Environmental Impact Assessment of the Strangford Lough Tidal Power Barrage Scheme in Northern Ireland, W85-00566 1802 6G

**CARTER, S. M.**  
Toxicity of the Herbicides Endothall and Diquat to Benthic Crustacea, W85-02778 1806 5C

**CARTWRIGHT, K.**  
Factors in Design, Location and Integrity of Landfills, W85-03712 1807 5E

Hydrogeologic and Geochemical Studies of Selected Natural Radioisotopes and Barium in Groundwater in Illinois, W85-05122 1810 2K

Three-Dimensional Geologic Mapping: A Basis for Hydrogeologic and Land-Use Evaluations, W85-03272 1807 8E

**CARUSO, J. A.**  
Speciation of Arsenic and Cadmium Compounds by Reversed-Phase Ion-Pair LC with Single-Wavelength Inductively Coupled Plasma Detection, W85-03865 1808 5A

**CARVALHO, M. L.**  
Influence of Predation by Fish and Water Turbidity in a *Daphnia gessneri* Population in an Amazonian Floodplain Lake, Brazil, W85-02409 1805 2H

**CARY, J. W.**  
Amount of Soil Ice Predicted from Weather Observations, W85-01072 1802 2G

**CASAS, J. I. O.**  
Applicability of the OECD Eutrophication Models to Spanish Reservoirs, W85-05637 1810 2H

**CASCOS, P. V.**  
Trace Metals in San Francisco Bay, California, near the Proposed San Luis Drain Discharge Site: A Preliminary Report, W85-03927 1808 5A

**CASE, M. J.**  
Use of Simple Kinetic Models to Help Design Environmental Monitoring Systems, W85-05102 1810 5A

**CASE, R. L.**  
No More Alkalinity Burnout, W85-03798 1808 5D

**CASEY, E. S.**  
Water Law - Public Trust Doctrine, W85-04193 1808 6E

**CASEY, H.**  
Influence of Within-Stream Disturbance on Dissolved Nutrient Levels During Spates, W85-02089 1804 2E

**CASPERS, H.**  
Oxygen Production in a Bay Within the Freshwater Section of the Elbe Estuary. An Investigation of the Muhlenberger Loch in Hamburg (Die Sauerstoffproduktion einer Bucht im Süswasserbereich des Elbe-Aestuars Untersuchungen im 'Muhlenberger Loch' in Hamburg), W85-03121 1806 6G

**CASSERI, N. A.**  
Use of a Rapid Bioassay for Assessment of Industrial Wastewater Treatment Effectiveness, W85-05570 1810 5A

**CASSISTA, A.**  
Simultaneous GLC Determination of Fenitrothion, Aminocarb and Their Corresponding Hydrolysis Products in Water, W85-06762 1812 5A

**CASTELLA, E.**  
Macroinvertebrates as 'Describers' of Morphological and Hydrological Types of Aquatic Ecosystems Abandoned by the Rhone River, W85-04722 1809 2H

**CASTLE, W.**  
Petrowatch: Petroleum Hydrocarbons, Synthetic Organic Compounds, and Heavy Metals in Mussels from the Monterey Bay Area of Central California, W85-02326 1805 5B

**CASULLI, V.**  
Eulerian-Lagrangian Solution of the Convection-Dispersion Equation in Natural Coordinates, W85-02162 1804 1B

**CATALANO, L.**  
Acid Rain: New SO<sub>2</sub> Controls Inevitable, W85-00210 1801 5C

Legislators Pause; Engineers Refine Control Technologies, W85-00941 1802 6E

**CATALANO-SHERMAN, J.**  
Effects of Humic Materials on Virus Recovery from Water, W85-07131 1812 5A

**CATALIOTTI-VALDINA, D.**  
Development of Liquid and Solid Discharges of a Sub-Boreal Estuary: The St-Jean River, Quebec (North Coast of the Gulf of St-Lawrence) (Evolution du débit liquide et de la charge solide d'un estuaire sub-boreal: rivière St-Jean, Québec (côte nord du golfe du St-Laurent)), W85-00144 1801 2L

Estuarine Development of a Regulated River in a Sub-Boreal Climate: The Outardes River (North Coast of the St. Lawrence Gulf, Quebec) (Evolution Estuarienne d'une Rivière Regularisée En Climat Sub-Boreal: La Rivière Aux Outardes (Côte Nord du Golfe du St-Laurent, Québec)), W85-00956 1802 2J

**CATTANEO, A.**  
Effects of Turbulence on Phosphorus Supply in a Shallow Bay of Lake Memphremagog, W85-02617 1805 2H

**CAUFIELD, C.**  
California Approach to Plumbing, W85-06567 1812 6G

**CAUSSADE, B.**  
Simulation of the Behaviour of Nitrogen in Soils (Simulation de l'Impact de Produits Réactifs dans les Sols - Cas de l'Azote), W85-02460 1805 5B

Study and Management Model of Surface-Water Nitrogen Concentration in a Cultivated Catchment (Modèle d'Etude et de Gestion de la Teneur en Azote des Eaux de Surface dans un Bassin-Versant sous Culture), W85-02461 1805 5B

**CAUSSEAU, K. W.**  
Chloride Concentrations in the Coastal Margin of the Floridan Aquifer, Southwest Florida, W85-00585 1802 2F

**CAUWET, G.**  
Behaviour of Metallic and Radioactive Elements in Lagoonal Sediments: the Example of the Canet-St Nazaire Pond (Mediterranean Coast), W85-00914 1802 2L

**CAYELIER, C.**  
Changes in the Quality of River Oise Water During Retention in the Storage Basin at Mery (France) (Evolution de la Qualité de la Rivière Oise lors de sa Retention dans le Bassin de 'Storage' de Mery (France)), W85-05635 1810 2H

**CAZABON, A.**  
Study of Periphyton in a Polluted Section of a Varoise River, the Argens. Spatial Evolution of the Algal Population During a Period of Intense Pollution (Etude du periphyton d'un secteur pollué d'une rivière varoise, l'Argens. Evolution spatiale du peuplement algal en période d'intense pollution), W85-02327 1805 5C

**CAZEAU, C. J.**  
Biology, Ecology and Chemistry of a Floc-Like Sediment in Lake Erie, W85-02642 1805 2H

**CAZELLES, B.**  
Occurrence of DNA in River Sediment: Its Meaning and Relations With Benthos Respiration, Organic Load and Macroinvertebrates Biomass, W85-04699 1809 5C

**CEBALT, F.**  
Thermal Treatment 'Energizes' San Mateo Sludge, W85-04649 1809 5E

**CEJCHANOVÁ, M.**  
Migration and Speciation of Lead in a River System Heavily Polluted From a Smelter, W85-04484 1809 5B

## AUTHOR INDEX

CHANGON, S. A. JR.

**CELLOT, B.**  
Seasonal Dynamics of Water Movements and of Suspended Matter in a Large River (Dynamique et Saisonnière des Mouvements de l'eau et des Particules en Suspension dans un Fleuve),  
W85-05681 1810 2E

**CEMBROWICZ, R. G.**  
Water Resources Development and Management Plans, Part VIII: Water-Quality Control Models - An Aspect of the Water-Quality Management Study 'Bewirtschaftungsplan Leine' (Bewirtschaftungsplane, Teil VIII: Entscheidungsmodelle in der Wassergutewirtschaft - ein Teilespekt der Pilotstudie Bewirtschaftungsplan Leine),  
W85-06156 1811 5G

Water Resources Development and Management Plans; Part 7: Time Variable Effluents in Water Quality Computations - An Aspect of the Water Quality Management Study 'Bewirtschaftungsplan Leine' (Bewirtschaftungsplane, Teil VII: Guteberechnungen mit zeitvariante Schmutzwassereinleitungen - ein Teilespekt der Pilotstudie Bewirtschaftungsplan Leine),  
W85-00967 1802 5B

**CENCI, G.**  
Bacteriological and Chemical Variations and Their Inter-relationships in a Slightly Polluted Water-Body,  
W85-04034 1808 5A

**CERJAN-STEFANOVIĆ, S.**  
Effect of Temperature on the Sorption of Lead and Cadmium by Ion Exchange,  
W85-03415 1807 5D

**CERMAK, J.**  
Xylem Water Flow in a Crack Willow Tree (*Salix fragilis* L.) in Relation to Diurnal Changes of Environment,  
W85-02900 1806 2I

**CERUTTI, J. L.**  
Underground Utilities in Barrow, Alaska,  
W85-04925 1809 6A

**CESARIO, A. L.**  
Calibrating Water System Models,  
W85-01904 1804 5F

**CHADIK, P. A.**  
Chlorine Utilization during Trihalomethane Formation in the Presence of Ammonia and Bromide,  
W85-02806 1806 5B

**CHADWICK, J. W.**  
Coal Mine Drainage Effects on a Lotic Ecosystem in Northwest Colorado, U.S.A.,  
W85-00991 1802 5C

**CHAHUNEAU, F.**  
Modeling the Seasonal Thermal Development of Lake Nantua (Ain, France) (Modélisation de l'Évolution Thermique Saisonnière du Lac de Nantua (Ain, France)),  
W85-02611 1805 2H

**CHAKRABARTI, T.**  
Biological Treatability of m-Aminophenol Plant Wastewater Containing Structural Isomers of Benzene with Different Substituents,  
W85-06220 1812 5D

Wastewater Treatment of a Phthalate Plasticizer, Ethanolamine and Morpholine Manufacturing Plant: A Case Study,  
W85-05226 1810 5D

**CHAKRABORTI, D.**  
Determination of Arsenite and Arsenate by Differential Pulse Polarography,  
W85-03412 1807 5A

Determination of Ionic Alkyllead Compounds in Water by Gas Chromatography/Atomic Absorption Spectrometry,  
W85-03732 1807 5A

**CHALMERS, D. J.**  
Effects of Regulated Water Deficits on Pear Tree Growth, Flowering, Fruit Growth, and Yield,  
W85-06204 1812 3F

**CHALMERS, R. K.**  
Standards for Waters and Industrial Effluents,  
W85-01404 1803 5D

**CHALOV, P. I.**  
Investigation of the Possibilities of Uranium Isotope Modeling of Processes of Groundwater Formation and Circulation under Conditions of the Development of Surface Streams and Short Transit Zone,  
W85-04095 1808 2F

Use of Uranium-Series Isotopes for Studying Thermal Waters of the Frunze Region,  
W85-05150 1810 2F

**CHAMBERLAIN, W. H.**  
Chemical Content of Snow and Effect of Melting on Cascade Mountain Lakes,  
W85-02329 1805 5B

**CHAMBERS, B.**  
Control Strategies for Bulking Sludge,  
W85-03640 1807 5D

**CHAMBERS, J. E.**  
Short-Term Interactions Between DDT and Endrin Accumulation and Elimination in Mosquitofish (*Gambusia affinis*),  
W85-07157 1812 5C

**CHAMBERS, R. C.**  
Municipal Use of Existing Wells for Supplemental Water Supply in the Piedmont and Blue Ridge Provinces of Georgia,  
W85-06318 1812 6C

**CHAMBERS, R. L.**  
Sediment Trap Studies in Lake Michigan: Resuspension and Chemical Fluxes in the Southern Basin,  
W85-02892 1806 2J

**CHAMBLEE, J. W.**  
Free Fluoride of the Pamlico River in North Carolina; A New Method to Localize the Discharge of Polluted Water into an Estuary,  
W85-03539 1807 5B

**CHAN, K.-Y.**  
Effects of Diesel Oil and Oil Dispersants on Growth, Photosynthesis, and Respiration of *Chlorella salina*,  
W85-07158 1812 5C

Growth of *Enteromorpha linza* in Sewage Effluent and Sewage Effluent-Seawater Mixtures,  
W85-01475 1803 5D

**CHAN, S.-L.**  
Chemical Pollutants in Sediments and Diseases of Bottom-Dwelling Fish in Puget Sound, Washington,  
W85-02347 1805 5C

**CHAN, W. H.**  
Long-Term Precipitation Quality and Wet Deposition Fields in the Sudbury Basin,  
W85-03595 1807 5B

**CHANASYK, D. S.**  
Interflow Model: I. Model Development,  
W85-04577 1809 2A

Interflow Model: II. Model Validation,  
W85-04579 1809 2A

**CHANDER, S.**  
Unit Hydrograph Based Forecast Model,  
W85-02827 1806 2A

**CHANDIO, B. A.**  
Three-Dimensional Model of a Skimming Well,  
W85-02446 1805 2F

**CHANDRAMOHAN, D.**  
Microbial Indicators and Pathogens near the Mouth Region of Vembanad Lake,  
W85-01465 1803 5B

**CHANDRASEKARAN, P. M.**  
Microbial Indicators and Pathogens near the Mouth Region of Vembanad Lake,  
W85-01465 1803 5B

**CHANAY, R. L.**  
Effect of Sludge Quality and Rate, Soil pH, and Time on Heavy Metal Residues in Leafy Vegetables,  
W85-05382 1810 5E

**CHANG, A. T. C.**  
Nimbus-7 SMMR Polarization Responses to Snow Depth in the Mid-Western U.S.,  
W85-06636 1812 2C

**CHANG, C.**  
Soil Salinity Status and its Relation to Some of the Soil and Land Properties of Three Irrigation Districts in Southern Alberta,  
W85-06151 1811 4A

**CHANG, C. A.**  
Incorporation of Trivalent Chromium into Riverine and Estuarine Colloidal Material,  
W85-03206 1806 2K

**CHANG, F.-H.**  
Effects of Simulated Acid Precipitation on Decomposition and Leaching of Organic Carbon in Forest Soils,  
W85-03095 1806 5C

**CHANG, H. H.**  
Meandering of Underfit Streams,  
W85-04280 1808 2E

Modeling General Scour at Bridge Crossings,  
W85-06118 1811 2J

Regular Meander Path Model,  
W85-03009 1806 8B

Variation of Flow Resistance Through Curved Channels,  
W85-03788 1808 2E

Water and Sediment Routing Through Curved Channels,  
W85-06040 1811 2E

**CHANG, J. C. H.**  
Comparison of Methods of Enumerating Coliform After UV Disinfection,  
W85-02938 1806 5A

**CHANG, K.**  
Intraspecific Variation in Copper Susceptibility of the Bluegill Sunfish,  
W85-02194 1805 5C

**CHANG, M.**  
Forests and Other Factors Associated with Streamflows in East Texas,  
W85-03137 1806 2E

**CHANG, N.-W.**  
Formation and Fate of Bromoform During Desalination,  
W85-03809 1808 3A

**CHANGJIAN, T.**  
Horizontal Frost Heave Thrust Acting on Buttress Constructions,  
W85-00274 1801 8D

**CHANGNON, S. A. JR.**  
Climate Fluctuations in Illinois: 1901-1980,  
W85-06346 1812 2B

**CHANGNON, S. A. JR.**  
Research Agenda for Floods to Solve Policy Failure,  
W85-04243 1808 4A

## AUTHOR INDEX

**CHANMEESRI, N.**

Shallow Flow of Water Through Non-Submerged Vegetation, W85-06684 1812 2E

**CHANPONGSANG, A.**

Trace Metal Composition of and Accumulation Rates of Sediments in the Upper Gulf of Thailand, W85-02654 1805 5B

**CHANUT, J.-P.**

Short-Term Variability of the Size Spectra of Suspended Particles in a Rapidly Changing Environment, W85-00658 1802 2L

**CHAO, A. C.**

Recovery and Application of Solids from Crab-Processing Wastewater, W85-05567 1810 5D

**CHAO, P. C.**

Mathematical Model for Reservoir Sedimentation Planning, W85-04785 1809 6A

**CHAPMAN, B.**

Acid Deposition near a Sour Gas Plant in Southwestern Alberta, W85-06373 1812 5B

**CHAPMAN, B. M.**

Modelling the Transport of Reacting Chemical Contaminants in Natural Streams, W85-00778 1802 5B

**CHAPMAN, G. A.**

Effect of Pentachlorophenol on the Growth and Mortality of Embryonic and Juvenile Steelhead Trout, W85-03226 1807 5C

**CHAPMAN, P. M.**

Comparative Study of Respiration Rates of Some Aquatic Oligochaetes in Relation to Sublethal Stress, W85-04905 1809 5C

Effects of Puget Sound Sediments and Their Elutriates on the Life Cycle of Capitella capitata, W85-02782 1806 5C

Lethal and Sublethal Tolerances of Aquatic Oligochaetes with Reference to Their Use as a Biotic Index of Pollution, W85-02773 1806 5C

**CHAPMAN, T. G.**

Unsteady Shallow Groundwater Flow Over a Carved Impermeable Boundary, W85-03166 1806 2F

**CHAPNICK, S. D.**

Microbially Mediated Manganese Oxidation in a Freshwater Lake, W85-01598 1803 2H

**CHARBENEAU, R. J.**

Kinematic Models for Soil Moisture and Solute Transport, W85-01343 1803 2G

**CHARLES, D. F.**

Recent pH History of Big Moose Lake (Adirondack Mountains, New York, U.S.A.) Inferred from Sediment Diatom Assemblages, W85-02647 1805 5C

**CHARLTON, C. C.**

Copper Complexation and Toxicity to Daphnia in Natural Waters, W85-04716 1809 5C

**CHARLTON, M. N.**

Chlorinated Organic Contaminants on Settling Particulates in the Niagara River Vicinity of Lake Ontario, W85-03601 1807 5B

Oxygen Depletion in Central and Eastern Lake Erie: Relationship with Bacteria, Chlorophyll, POC, and Morphometry, W85-01752 1804 2H

**CHARLTON, S. E. D.**

Seasonal Physical, Chemical and Algal Changes in Five Rivers Flowing Through the Oil Sands Region of Alberta, Canada, W85-02562 1805 2E

**CHASE, E. B.**

Estimated Use of Water in the United States in 1980, W85-00042 1801 6D

**CHASSEFIERE, B.**

Behaviour of Metallic and Radioactive Elements in Lagoonal Sediments: the Example of the Canet-St Nazaire Pond (Mediterranean Coast), W85-00914 1802 2L

**CHATTERJI, A.**

Effect of Domestic Sewage on Sand Beach Meiofauna at Goa, India, W85-00423 1801 5C

**CHATURVEDI, M. C.**

Irrigation System Study in International Basin, W85-06027 1811 6A

**CHATWIN, P. C.**

Mathematical Models of Dispersion in Rivers and Estuaries, W85-05832 1810 2E

**CHAU, A. S. Y.**

Chemical Derivatization Analysis of Pesticide Residues. IX. Analysis of Phenol and 21 Chlorinated Phenols in Natural Waters by Formation of Pentafluorobenzyl Ether Derivatives, W85-05471 1810 5A

Chemical Derivatization Analysis of Pesticide Residues. VIII. Analysis of 15 Chlorophenols in Natural Water by In Situ Acetylation, W85-02113 1804 5A

**CHAU, Y. K.**

Uptake and Accumulation of Inorganic Tin by a Freshwater Alga, *Ankistrodesmus falcatus*, W85-03598 1807 5C

**CHAUAN, S.**

Controlled Clinical Evaluations of Chlorine Dioxide, Chlorite and Chlorate in Man, W85-01205 1803 5F

**CHAUBE, A.**

Determination of Ultra Trace Concentrations of Nitrite in Polluted Waters and Soil, W85-00547 1802 5A

**CHAUBE, U. C.**

Irrigation System Study in International Basin, W85-06027 1811 6A

**CHAUDHRY, H. S.**

Nickel Induced Hyperglycemia in the Freshwater Fish, *Colisa fasciatus*, W85-05693 1810 5C

**CHAUVET, E.**

Dynamics of Contribution of Nitrogen and Phosphorus to the River Aveyron (Dynamique des apports en nutriments azotes et phosphores a la riviere Aveyron), W85-00092 1801 5C

Influence of a Reduction in Flow on a Mountain River: The Aston (Ariege) (Influence d'une reduction de debit sur un torrent de montagne: l'Aston (Ariege)), W85-00091 1801 6G

**CHAVEZ, C. G.**

Impact of Recent Court Decisions Concerning Water and Interstate Commerce on Water Resources of the State of New Mexico, W85-04192 1808 6E

**CHAVEZ-MORALES, J.**

Border Irrigation Model Selection, W85-06092 1811 3F

Comparison and Selection of Furrow Irrigation Models, W85-03484 1807 3F

**CHAVTARAEV, B. A.**

On-Site Tests of a Segmental Constriction as a Flowmeter in Large Diameter Pipes, W85-05985 1811 8A

**CHAWLA, K. L.**

Hydraulic Properties of a Sandy Loam Soil as Influenced by Salinisation and Desalinisation, W85-05934 1811 2G

**CHECHEL', I. I.**

Investigation of Water Circulation in the Northwestern Black Sea and Its Relation to Human Impact on River Runoff, W85-04118 1808 2E

**CHECHELASHVILI, N. I.**

Determination of Velocities of Mass Movement of Sediments on the Foreshore, W85-05147 1810 2J

**CHEE, S. P.**

Flow Resistance of Ice-Covered Streams, W85-05459 1810 2E

**CHEEK, T. E.**

Influences of Water Quality on Distribution of Striped Bass in a Tennessee River Impoundment, W85-06406 1812 5C

**CHEGWIDDEN, A.**

Cadmium and Other Heavy Metal Concentrations in Selected Biota from Cockburn Sound, Western Australia, W85-00781 1802 5A

**CHELIDZE, YU. B.**

Analysis of the Reliability and Stability of the Periods of Oscillations of the Groundwater Level, W85-04092 1808 2F

**CHEN, C.**

Convergent Flow Pattern at an Abrupt Contraction, W85-07101 1812 2E

**CHEN, C.-S.**

Reinvestigation of the Analytical Solution for Drawdown Distributions in a Finite Confined Aquifer, W85-03170 1806 2F

**CHEN, C. W.**

Development and Calibration of the Integrated Lake-Watershed Acidification Study Model, W85-05321 1810 2K

Hydrologic Analyses of Acidic and Alkaline Lakes, W85-03993 1808 2H

**CHEN, D.**

Economic Sprinkler Selection, Spacing, and Orientation, W85-03378 1807 3F

**CHEN, D. C.**

Fermentation Process for Dilute Food and Dairy Wastes, W85-05257 1810 5D

**CHEN, D. F.**

Organochlorine Pesticide Residues in Paddy Fish in Malaysia and the Associated Health Risk to Farmers, W85-01438 1803 5B

**CHEN, G.**

Relationships Between Electrical Conductivity, Chlorinity and Density of Coastal Waters of China (in Chinese), W85-02382 1805 2L

## AUTHOR INDEX

CHIU, S. Y.

<b>CHEN, H. H.</b>				
Hydraulic Conductivity, Specific Yield, and Pumpage - High Plains Aquifer System, Nebraska, W85-00032	1801	7C		
Hydrologic Analysis of the High Plains Aquifer System in Box Butte County, Nebraska, W85-03915	1808	2F		
<b>CHEN, J.-S.</b>				
Elemental Composition of Suspended Particles From the Yellow and Yangtze Rivers, W85-01703	1804	2J		
<b>CHEN, R. L.</b>				
Role of Sediments in the Nitrogen Budget of Lower Green Bay, Lake Michigan, W85-01754	1804	5B		
<b>CHEN, S.-J.</b>				
Numerical Prediction of the Heavy Rainfall Vortex over Eastern Asia Monsoon Region, W85-04022	1808	2B		
<b>CHEN, T. T.</b>				
Development of a Rapid, Sensitive and Quantitative Test for the Assessment of the Effects of Xenobiotics on Reproduction in Fish, W85-05895	1811	5A		
<b>CHEN, Y. H.</b>				
Modeling Physics and Chemistry of Contaminant Transport in Three-Dimensional Unsaturated Groundwater Flow, W85-06301	1812	2F		
Salt River Channelization Project: Model Study, W85-05783	1810	2J		
<b>CHENCHAYYA, B. T.</b>				
Depth-Duration Models of Short Time Increment Rainfall, W85-01683	1804	2B		
<b>CHENG, A. H.-D.</b>				
Boundary Integral Solution to Seawater Intrusion Into Coastal Aquifers, W85-02371	1805	2F		
Darcy's Flow with Variable Permeability: A Boundary Integral Solution, W85-02165	1804	2F		
<b>CHENG, C. Y.</b>				
Treatment of Cork-Stopper Manufacturing Wastes, W85-05295	1810	5D		
<b>CHENG, K. J.</b>				
Bottom-Boundary Condition for Nonequilibrium Transport of Sediment, W85-02962	1806	2J		
<b>CHENG, M. D.</b>				
Oxygen Uptake Rates for Determining Microbial Activity and Application, W85-06230	1812	5D		
<b>CHENG, R. T.</b>				
Eulerian-Lagrangian Solution of the Convection-Dispersion Equation in Natural Coordinates, W85-02162	1804	1B		
<b>CHENG, X.</b>				
Development of the Wujiang River, W85-01545	1803	8A		
Development of the Wujiang River, Part Two, W85-01551	1803	8A		
<b>CHEPAIKIN, G. A.</b>				
Forecast and Provision of Cavitation-Erosion Safety in High-Head Spillways, W85-01142	1803	8A		
High-Head Spillway with Swirling of the Flow in the Outlet Section, W85-04420	1809	8A		
<b>CHERKAUER, D. S.</b>				
Application of Combined Seismic and Electrical Measurements to the Determination of the Hydraulic Conductivity of a Lake Bed, W85-03178	1806	7B		
<b>CHERNILOV, A. G.</b>				
Dynamic Strength of Cohesionless Soils, W85-00459	1801	8D		
<b>CHERNYSHEV, E. P.</b>				
Experimental Investigation of Territorial Water Balance and Its Transformations, W85-04148	1808	6D		
<b>CHERRY, D. S.</b>				
Coal Ash Basin Effects (Particulates, Metals, Acidic pH) Upon Aquatic Biota: An Eight-Year Evaluation, W85-02980	1806	5C		
Ionoregulatory and Toxicological Responses of Stonefly Nymphs (Plecoptera) to Acidic and Alkaline pH, W85-05108	1810	5C		
Structural, Functional, and Recovery Responses of Stream Invertebrates to Fly Ash Effluent, W85-01491	1803	5C		
<b>CHERRY, J. A.</b>				
Comparative Study of Specific Yield Determinations for a Shallow Sand Aquifer, W85-03156	1806	2F		
Dual Formulation of Flow for Contaminant Transport Modeling; 2. The Borden Aquifer, W85-05497	1810	5B		
Geochemical Evolution of Groundwater in Sequences of Sedimentary Rocks, W85-04269	1808	2K		
Geochemical Reactions Associated with Low-Temperature Thermal Energy Storage in Aquifers, W85-03425	1807	2F		
Transport of Organic Contaminants in Groundwater, W85-06704	1812	5B		
<b>CHERY, D. L. JR.</b>				
Simple Methods to Evaluate Relative Effects of Longitudinal Encroachments, W85-04333	1808	8B		
Use of a Dam Break Model to Assess Flooding at Haddam Neck Nuclear Power Plant, W85-04998	1810	2E		
<b>CHESNESS, J. L.</b>				
Irrigation Scheduling - A Valid Option with Microprocessor-Based Controls, W85-01076	1802	3F		
<b>CHESNEY, R. H.</b>				
Incorporation of Phenol Carbon at Trace Concentrations by Phenol-Mineralizing Microorganisms in Fresh Water, W85-04257	1808	5B		
<b>CHESSEL, D.</b>				
Transverse Distribution of Benthic Macroinvertebrates in an Arm of the Rhone (Repartition Transversale des Macroinvertebres Benthiques Dans un Bras du Rhone), W85-00986	1802	2H		
<b>CHESTERS, G.</b>				
Primer on Nonpoint Pollution, W85-05939	1811	5B		
Release of Phosphorus and Metals from Soils and Sediments during Dispersion, W85-06207	1812	2J		
<b>CHEVONE, B. I.</b>				
Analysis of the Chemical Properties of Rain in Minnesota, W85-00246	1801	2K		
<b>CHEYNEY, A. C.</b>				
Experience with the Co-disposal of Hazardous Waste with Domestic Waste, W85-02752	1806	5E		
<b>CHIAN, E. S. K.</b>				
Nitrification of Anaerobically Treated Coal Gasifier Effluent, W85-02587	1805	5D		
<b>CHIANG, L.-A.</b>				
Simulation of Growth and Decay of River Ice Cover, W85-01559	1803	2C		
<b>CHIANG, S.</b>				
Two-Column Method for Preconcentration of Trace Metals in Natural Waters on Acrylate Resin, W85-05518	1810	5A		
<b>CHIANG, S. H.</b>				
2-D Infiltration Equations for Furrow Irrigation, W85-01512	1803	2G		
<b>CHIBA, M.</b>				
Toxicity and Accumulation of Mercury in Fish, the Himedaka Oryzias latipes, W85-00138	1801	5C		
<b>CHICHASOV, V. YA.</b>				
On-Site Observations at the Atbashi Hydroelectric Station, W85-00448	1801	8A		
<b>CHIENG, S.-T.</b>				
First and Second Order Analyses of Parameter Uncertainty in Drainage Design, W85-03400	1807	2E		
<b>CHIESA, R.</b>				
Operating Experience with an Integrated Power Plant Wastewater Treatment System, W85-05269	1810	5D		
<b>CHIKWENDU, S. C.</b>				
Slow-Zone Model for Longitudinal Dispersion in Two-Dimensional Shear Flows, W85-07083	1812	5B		
<b>CHILLERS, J. M.</b>				
Reconnaissance of Surface Water Resources in the Togiak River Basin, Southwestern Alaska, 1980 and 1982, W85-01777	1804	2A		
<b>CHILSON, G.</b>				
Low-Head Hydropower for Local Use, W85-04620	1809	6B		
<b>CHIN, D. A.</b>				
Model of Dispersion in Coastal Waters, W85-04394	1808	5B		
<b>CHIN, K. K.</b>				
Two-Phase Anaerobic Treatment Kinetics of Palm Oil Wastes, W85-07124	1812	5D		
<b>CHING, C. T. K.</b>				
Agricultural Water Pollution Control: An Interdisciplinary Approach, W85-05067	1810	6B		
<b>CHISHOLM, R. A.</b>				
Distribution Problems in Water Supply, W85-03320	1807	5F		
<b>CHITWOOD, E. S.</b>				
Water-Quality Records for Selected Reservoirs in Texas, 1976-77 Water Years, W85-00621	1802	5A		
<b>CHIU, C.-L.</b>				
Prediction of Combined Snowmelt and Rainfall Runoff, W85-05778	1810	2E		
<b>CHIU, S. Y.</b>				
Effects of Diesel Oil and Oil Dispersants on Growth, Photosynthesis, and Respiration of Chlorella salina, W85-07158	1812	5C		

## AUTHOR INDEX

**CHLADEK, E.**

**CHLADEK, E.**  
Use of Bonded Phase Silica Sorbents for the Sampling of Priority Pollutants in Wastewater, W85-02809 1806 5A

**CHO, W. C.**  
Eigenvalue Solution Continuous in Time to the Spatially Discretized Solute Transport Equation in Steady Groundwater Flow, W85-03573 1807 5B

Eigenvalue Technique for Solute Transport, W85-03004 1806 5B

**CHOATE, W. T.**  
Membrane-Enhanced Anaerobic Digesters, W85-05282 1810 5D

**CHOI, Y. K.**  
Settlement Analysis of Embankments on Soft Clays, W85-06023 1811 8D

**CHOJNACKI, J. M.**  
Effect of Anthropogenic Changes of Water Conditions on the Vegetation in the Forest Reserve Las Bielanski in Warsaw (Wpływ antropogennych zmian stosunków wodnych na roślinność rezerwatu Las Bielanski w Warszawie), W85-04610 1809 4C

**CHOSHEN, E.**  
Determination of Oxidants Formed upon the Disinfection of Drinking Water with Chlorine Dioxide, W85-01743 1804 5A

**CHOU, C. C.**  
Biodegradation of Sulfolane in Refinery Wastewater, W85-05275 1810 5D

**CHODHURY, B. J.**  
Some Sensitivity Results for Corn Canopy Temperature and its Spatial Variation Induced by Soil Hydraulic Heterogeneity, W85-06193 1812 2I

**CHOUDHURY, G. R.**  
Management of Sedimentation in Bangladesh, W85-04440 1809 2J

**CHOUARTON, T. W.**  
Acid Deposition in Rain over Hills, W85-03294 1807 5B

**CHOULIK, O.**  
Effects of Phosphorus Fertilization on Phytoplankton Biomass and Phosphorus Retention in Subarctic Quebec Lakes, W85-02635 1805 2H

**CHOW, W.**  
Biofouling Control Through Targeted Chlorination, W85-03051 1806 5F

**CHOWDHURY, A.**  
Drought Prediction in India from Radiation Parameters, W85-05083 1810 2B

Markov Chain Model for the Probability of Drought Incidence in India, W85-05091 1810 2B

Some Climatological Aspects of Drought in India, W85-05086 1810 2B

**CHOWDHURY, D. K.**  
Relationship between Serum Enzymes, Histological Features and Enzymes in Hepatopancreas after Sublethal Exposure to Malathion and Phosphenidon in the Murrel Channa striatus (Bl.), W85-06557 1812 5C

**CHRISTELSOHN, B.**  
Experience in the Magdeburg District with the Implementation of Rational Water Use (Erfah-

rungen des Bezirkes Magdeburg bei der Durchsetzung der rationalen Wasserverwendung), W85-03472 1807 3F

**CHRISTENBURY, G. D.**  
Tillage Effects on Crop Yield in Coastal Plain Soils, W85-06079 1811 2G

**CHRISTENSEN, E. J.**  
Nontidal Wetland Mapping in South Carolina Using Airborne Multispectral Scanner Data, W85-03301 1807 7B

**CHRISTENSEN, E. R.**  
Aquatic Ecotoxicology, W85-04077 1808 5C

Ecotoxicological Assays with Algae: Weibull-Dose-Response Curves, W85-02348 1805 5C

**CHRISTENSEN, M. A.**  
Preserving Nebraska's Wetlands: Now and in the Future, W85-04374 1808 5G

**CHRISTENSEN, R. C.**  
Surface Water and Climatologic Data, Salt Lake County, Utah, Water Year 1981, With Selected Data for Water Years 1980 and 1982, W85-00603 1802 7C

**CHRISTENSEN, V.**  
Status of Water and Sanitation Facilities in the Northwest Territories, W85-04238 1808 6B

**CHRISTENSON, S. C.**  
Numerical Simulation of the High Plains Regional Aquifer, Northwestern Oklahoma, W85-03899 1808 2F

**CHRISTIAN, K. L.**  
Ethylene Dichloride/Ethylene Glycol Spill in a Major Water Resource in British Columbia, W85-06610 1812 5G

**CHRISTIAN, R.**  
Accuracy of Discharge Determined from a Rating Curve, W85-00694 1802 2E

**CHRISTIAN, R. R.**  
Estimating Mean Coliform Densities of Water Distribution Systems, W85-03628 1807 5A

Frequency Distribution of Coliforms in Water Distribution Systems, W85-00106 1801 5F

**CHRISTIANSEN, J. A.**  
Improving Effluent Quality of Petrochemical Wastewaters with Mutant Bacterial Cultures, W85-05276 1810 5D

**CHRISTIE, H.**  
Changes in the Sublittoral Hard Bottom Benthos after a Large Reduction in Pulp Mill Waste to Idegefjord, Norway, Sweden, W85-01629 1803 5C

**CHRISTMAN, R. F.**  
Reaction Products of Aquatic Humic Substances with Chlorine, W85-01206 1803 5F

**CHRISTMAN, S. P.**  
Breeding Bird Response to Greentree Reservoir Management, W85-04082 1808 6G

**CHROBAK, R. S.**  
Applying Analytical Techniques to Solve Groundwater Contamination Problems, W85-05478 1810 5G

**CHROMEK, J.**  
Possibility of Treatment of Wastewater from Artificial Leather Production with the Help of

Algae (Möglichkeiten der Nachreinigung von Abwassern aus der Kunstlederproduktion mit Hilfe von Algen), W85-06263 1812 5D

**CHROST, R. J.**  
Factors Affecting Alkaline Phosphatase Activity in a Lake (Short-Terms Experiments), W85-00226 1801 2H

Longterm Studies on Alkaline Phosphatase Activity (APA) in a Lake with Fish-Aquaculture in Relation to Lake Eutrophication and Phosphorus Cycle, W85-05726 1810 5C

Role of Phosphatases in Phosphorus Mineralization During Decomposition of Lake Phytoplankton Blooms, W85-03230 1807 2H

**CHRZANOWSKI, T. H.**  
Applicability of the Fluorescein Diacetate Method of Detecting Active Bacteria in Freshwater, W85-03306 1807 5A

Transport of Dissolved Organic Carbon through a Major Creek of the North Inlet Ecosystem, W85-01766 1804 2L

**CHU, W.-S.**  
Explicit Finite Difference Model for Unconfined Aquifers, W85-03152 1806 2F

Monte Carlo Optimization for Reservoir Operation, W85-02659 1805 4A

**CHUDOBA, J.**  
Inhibitory Effect of Refractory Organic Compounds Produced by Activated Sludge Micro-Organisms on Microbial Activity and Flocculation, W85-04974 1810 5D

Quantitative Estimation in COD Units of Refractory Organic Compounds Produced by Activated Sludge Microorganisms, W85-04486 1809 5D

**CHUGAEVA, G. A.**  
Seepage Regime of the Hydraulic-Fill Dam of the Minechaur Hydropower Development, W85-03577 1807 8D

**CHUIKOV, Y. S.**  
Relation Between Certain Components of Planktonic Community and the Content of Phosphates and Oxygen in Water (Vzaimosvazyi Mezhdy Nekotoryimi Komponentami Planktonnogo Soobshchestva i Soderzhaniem Fosfatov i Kisloroda v Vode), W85-06459 1812 2H

**CHUKWUDEBE, A. C.**  
Hydrolytic and Metabolic Products of Acephate in Water and Mouse Liver, W85-02813 1806 5B

**CHUMICHEV, B. D.**  
Dynamic Strength of Cohesionless Soils, W85-00459 1801 8D

**CHUNG, I.**  
Modeling the California State Water Project, W85-04245 1808 4A

**CHUNG, K. S.**  
Predicted Survival of the Bay Anchovy (Anchoa mitchilli) in the Heated Effluent of a Power Plant on Galveston Bay, Texas, W85-03022 1806 5C

Seasonal Change in Thermal Tolerance of Common Estuarine Crustaceans, W85-00140 1801 5C

## AUTHOR INDEX

**CLAUSNITZER, E.**

<b>CHUNG, Y. C.</b> Radium in the Dead Sea: A Possible Tracer for the Duration of Meromixis, W85-01330	1803 2H	<b>CLAASSEN, H. C.</b> Sources and Mechanisms of Recharge for Ground Water in the West-Central Amargosa Desert, Nevada—A Geochemical Interpretation, W85-00598	1802 2F	Irrigation Pumping with Wind Energy Only, W85-00943	1802 8C
<b>CHUPRINA, L. I.</b> Toxicity of Condensate from Polyester II-920 Production for <i>Daphnia magna</i> Straus and Its Effect on Self-Purification (Toksichnost' Kondensata ot Proizvodstva Poliefira P-520 Dlya <i>Daphnia magna</i> Straus i Ego Vliyanie na Protess Samoochishcheniya), W85-06461	1812 5C	<b>CLAASSEN, T. H. L.</b> Historical and Current Limnological Research in the Small River Linde, The Netherlands, W85-02503	1805 2H	<b>CLARK, T. B.</b> Dry Spell Continues for Water Projects as Financing Agreement Eludes Congress, W85-04368	1808 6B
<b>CHURCH, M.</b> Contemporary Sedimentary Environments on Baffin Island, N.W.T., Canada: Reconnaissance of Lakes on Cumberland Peninsula, W85-00110	1801 2H	<b>CLASSEN, T. H. L.</b> Limnological Characteristics of Some Small Eutrophicated Late-Glacial Pools, W85-05652	1810 2H	<b>CLARK, T. F.</b> Chlorine Tolerant Bacteria in a Water Distribution System, W85-00734	1802 5B
<b>CHURCH, R. L.</b> Water-Quality Study of the Russian River Basin During the Low-Flow Season 1973-78, Sonoma and Mendocino Counties, California, W85-03919	1808 5B	<b>CLAIR, T. A.</b> Trends in pH, Calcium, and Sulfate of Rivers in Atlantic Canada, W85-01589	1803 5C	<b>CLARK, W. J.</b> Availability of Dissolved Oxygen in Interstitial Waters of a Sandy Creek, W85-02103	1804 2E
<b>CHURCH, T. M.</b> Behaviour of Iron, Manganese, Phosphate and Humic Acid During Mixing in a Delaware Salt Marsh Creek, W85-00290	1801 2L	<b>CLAPP, R. B.</b> Statistical Exploration of the Relationships of Soil Moisture Characteristics to the Physical Properties of Soils, W85-01341	1803 2G	<b>CLARKE, G. K. C.</b> 1981-1982 Surge of Hazard Glacier, Yukon Territory, W85-00959	1802 2C
<b>Chemistry of the Delaware Estuary. General Considerations,</b> W85-01599	1803 2L	<b>CLARIDA, G.</b> Pretreatment Plant Under Every Lawn, W85-06840	1812 5D	<b>CLARKE, G. K. C.</b> Flow, Thermal Structure, and Subglacial Conditions of a Surge-Type Glacier, W85-00958	1802 2C
<b>Chemistry of Western Atlantic Precipitation at the Mid-Atlantic Coast and on Bermuda,</b> W85-00520	1802 2K	<b>CLARK, C. S.</b> Biological Health Risks Associated with the Composting of Wastewater Treatment Plant Sludge, W85-04291	1808 5E	Glacier Outburst Floods from 'Hazard Lake', Yukon Territory, and the Problem of Flood Magnitude Prediction, W85-00670	1802 2A
<b>Wet Deposition of Trace Metals to the Western Atlantic Ocean at the Mid-Atlantic Coast and on Bermuda,</b> W85-04504	1809 5B	<b>CLARK, D.</b> Case Study, Potable Water Reservoir, Tuktoyaktuk, Northwest Territories, W85-04927	1809 6A	Simulation of the August 1979 Sudden Discharge of Glacier-Dammed Flood Lake, British Columbia, W85-00960	1802 2E
<b>CHUTKINA, L. P.</b> Regionalization of Continents According to the Character of the Annual Distribution of River Runoff, W85-04091	1808 2E	<b>CLARK, E. H. II.</b> Off-Site Costs of Soil Erosion, W85-05941	1811 5C	<b>CLARKE, K. B.</b> Experiences in the Use of East Anglian Sands and Gravels ('Crags') as a Source of Water Supply, W85-05517	1810 5F
<b>CHYTIL, I.</b> Dispersion of Radioactive Pollution in Surface Water, W85-05605	1810 5B	<b>CLARK, E. R.</b> Effects of a Settled Industrial Domestic Sewage Works Effluent from Percolating Filters on the Embryo Viability and Hatching Success of Rainbow Trout, <i>Salmo gairdneri</i> Richardson, W85-03002	1806 5C	<b>CLARKE, R. T.</b> Reliability of Suspended Load Estimates in Chalk Streams, W85-04054	1808 2J
<b>CIBIK, S. J.</b> Adaptive Behavior of Euryhaline Phytoplankton Communities to Arsenic Stress, W85-06879	1812 5C	<b>CLARK, J. R.</b> Contaminant Analysis of Fillets from Great Lakes Coho Salmon, 1980, W85-01358	1803 5A	<b>CLARKE, T. L.</b> Sediment Cap Stability Study, New York Dredged Material Dumpsite, W85-00053	1801 5E
<b>CICHON, E. J.</b> Upflow Clarification of New England Surface Water Supplies, W85-04018	1808 5F	<b>CLARK, M. J. R.</b> Lake Algal Populations and Physico-Chemical Changes After 14 Years Input of Metallic Mining Wastes, W85-06221	1812 5C	<b>CLARKE, W. B.</b> Helium Accumulation in Groundwater, I: An Evaluation of Sources and the Continental Flux of Crustal $4\text{He}$ in the Great Artesian Basin, Australia, W85-07035	1812 2F
<b>CIESIELSKI, C. A.</b> Role of Stagnation and Obstruction of Water Flow in Isolation of Legionella Pneumophila from Hospital Plumbing, W85-03432	1807 5B	<b>CLARK, P. J.</b> Asbestos in Water Supplies of the United States, W85-02703	1806 5F	Helium and Neon Isotope Geochemistry of Some Ground Waters from the Canadian Precambrian Shield, W85-03210	1806 2F
<b>CINELLI, F.</b> Behavior of Tritium in the Marine Environment: Uptake and Distribution of Tritiated Water and of Tritiated Organic Compounds in Unicellular and Multicellular Algae, W85-03501	1807 5B	<b>CLARK, R. M.</b> Algorithm For Mixing Problems in Water Systems, W85-05780	1810 6C	<b>CLARKSON, B. R.</b> Vegetation of Three Mountain Mires, West Taupo, New Zealand, W85-06785	1812 2H
<b>CIVAN, F.</b> Comparison of the Thermal Regimes for Freezing and Thawing of Moist Soils, W85-05806	1810 2C	<b>CLARK, R. M.</b> Cost and Benefits of Drinking Water Treatment, W85-01649	1804 5F	<b>CLARKSON, C.</b> Comparing Priority Pollutants in Municipal Sludges, W85-05057	1810 5D
<b>CIVCO, D. L.</b> Annotated Bibliography of Remote Sensing for Highway Planning and Natural Resources, W85-00047	1801 10C	<b>GAC Treatment Costs: A Sensitivity Analysis,</b> W85-02274	1805 5F	<b>CLATTENBURG, D. A.</b> Prodelta Environment of a Fjord: Suspended Particle Dynamics, W85-06698	1812 2H
		<b>VOCs in Drinking Water: Cost of Removal,</b> W85-03806	1808 5F	<b>CLAUSNITZER, E.</b> Rational Water Use - Gauge for Growth in Achievement and Effectiveness in Water Management (Die Rationale Wasserverwendung - Massstab für den Leistungs- und Effektivitätszuwachs in der Wasserwirtschaft), W85-04322	1808 3D
		<b>CLARK, R. N.</b> Irrigation Pumping with Wind Energy - Electrical vs. Mechanical, W85-01186	1803 8C	Results of Surface-water, Dyke, and Coastal Inspection - Ways Toward More Effective Inspection for the Future, W85-01874	1804 4A

## AUTHOR INDEX

**CLAWSON, K. L.**

**CLAWSON, K. L.**  
 Quantifying Effects of Atmospheric CO<sub>2</sub> Enrichment on Stomatal Conductance and Evapotranspiration of Water Hyacinth via Infrared Thermometry,  
 W85-06202 1812 2D

Stability of Non-Water-Stressed Baselines,  
 W85-06198 1812 2D

Stomatal Conductance and Photosynthesis in Water Hyacinth: Effects of Removing Water from Roots as Quantified by a Foliage-Temperature-Based Plant Water Stress Index,  
 W85-06200 1812 2I

**CLAYSHULTE, R. N.**  
 Diagenesis and Pore-Space Evolution within Recent and Pleistocene Carbonate Units of Orote Peninsula, Guam,  
 W85-02027 1804 2F

Feasibility Study of Developing Valley-Fill Aquifers for Village Water Supplies in Southern Guam,  
 W85-02026 1804 2F

Hydrogeologic Investigation of Agana Swamp Northern Guam,  
 W85-02029 1804 2F

**CLAYTON, J. S.**  
 Effects of Fluctuations in Water Level and Growth of *Lagarosiphon Major* on the Aquatic Vascular Plants in Lake Rotoma, 1973-80,  
 W85-01631 1803 2H

**CLAYTON, J. W.**  
 Collapse of the Lake Whitefish (*Coregonus clupeaformis*) Fishery in Southern Indian Lake, Manitoba, following Lake Impoundment and River Diversion,  
 W85-00641 1802 6G

**CLEARY, J. J.**  
 Responses of the Mussel *Mytilus edulis* to Copper and Phenanthrene: Interactive Effects,  
 W85-05886 1811 5C

**CLEASBY, J. L.**  
 Slow Sand and Direct In-Line Filtration of a Surface Water,  
 W85-04406 1808 5F

**CLEEMPUT, O. V.**  
 Evaluation of the Burns Model for Nitrate Movement in Wet Sandy Soils,  
 W85-04248 1808 2K

**CLEMENS, M. M.**  
 Treatment of Contaminated Groundwater with Granular Activated Carbon,  
 W85-00128 1801 5F

**CLEMENT, P.**  
 Drainage of a Marginal Ice-Dammed Lake at Nordbogletscher, Johan Dahl Land, South Greenland,  
 W85-00875 1802 2H

**CLEMENT, R. W.**  
 Improvement of Flood-Frequency Estimates for Selected Small Watersheds in Eastern Kansas using a Rainfall-Runoff Model,  
 W85-01786 1804 2A

**CLEMENTS, J. R.**  
 Occurrence of Polychlorinated Biphenyls (PCB's) in Adult Mayflies (*Hexagenia bilineata*) of the Upper Mississippi River,  
 W85-04316 1808 5B

**CLEMENTS, R. P.**  
 Post-Construction Deformation of Rockfill Dams,  
 W85-02257 1805 8D

**CLEMMENS, A. J.**  
 Double-Bubblers Coupled with Pressure Transducers for Water Level Sensing,  
 W85-03385 1807 7B

Multipurpose Head Detection and Monitoring Unit,  
 W85-06094 1811 7B

Portable RBC Flumes for Furrows and Earthen Channels,  
 W85-03393 1807 7B

Rectangular Measuring Flumes for Lined and Earthen Channels,  
 W85-01506 1803 8A

**CLERICI, J. F.**  
 Analysis of Underdrain for Waste Disposal Leachate,  
 W85-05372 1810 5E

**CLESCHERI, L. S.**  
 Microbial Metabolism in Surface Sediments and its Role in the Immobilization of Phosphorus in Oligotrophic Lake Sediments,  
 W85-02076 1804 2J

**CLINE, G. R.**  
 Cadmium Sorption and Mobility in Sludge-Amended Soil,  
 W85-03097 1806 5E

**CLINE, I. D.**  
 Influence of Highway Construction on the Macroinvertebrates and Epilithic Algae of a High Mountain Stream,  
 W85-01470 1803 5C

Macroinvertebrates and Fish of a Colorado Stream During a Period of Fluctuating Discharge,  
 W85-00295 1801 2H

**CLITES, A. H.**  
 Satellite-Tracked Current Drifters in Lake Michigan,  
 W85-01760 1804 7B

**CLOERN, J. E.**  
 Seasonal Changes in the Chemistry and Biology of a Meromictic Lake (Big Soda Lake, Nevada, U.S.A.),  
 W85-05756 1810 2H

**CLOTHIER, B. E.**  
 Constant Head Well Permeameter: Effect of Unsaturated Flow,  
 W85-06208 1812 2G

Evapotranspiration from Pasture: A Comparison of Lysimeter and Bowen Ratio Measurements with Priestley-Taylor Estimates,  
 W85-06182 1812 2D

Solute Travel Times During Trickle Irrigation,  
 W85-03990 1808 2K

**CLOUGH, G. F. G.**  
 Practical Aspects of Energy Saving in Wastewater Disposal,  
 W85-04595 1809 5D

**CLOUGH, G. W.**  
 Finite Element Analyses of Lock and Dam 26 Cofferdam,  
 W85-06025 1811 8A

**CLOUTER, M. J.**  
 Elastic Constants of Artificial and Natural Ice Samples by Brillouin Spectroscopy,  
 W85-03346 1807 2C

**CLOW, G. D.**  
 Thickness of Ice on Perennially Frozen Lakes,  
 W85-04883 1809 2C

**CLUFF, C. B.**  
 Municipal Wastewater Increases Crop Yields,  
 W85-05059 1810 3C

**CLYDE, S. E.**  
 Legal and Institutional Barriers to Transfers and Reallocation of Water Resources,  
 W85-04187 1808 6E

**CLYMA, W.**  
 Designing Furrow-Irrigation Systems for Improved Seasonal Performance,  
 W85-06093 1811 3F

**COALE, S. L.**  
 California State Mussel Watch, 1981-1983, Biennial Report,  
 W85-06333 1812 5C

**COATES, M.**  
 Scheme for the Direct Analysis of Organics in the Environment by Tandem Mass Spectrometry,  
 W85-04656 1809 5A

**COATS, R.**  
 Channel Change, Sediment Transport, and Fish Habitat in a Coastal Stream: Effects of an Extreme Event,  
 W85-05069 1810 2E

Colorado River, River of Controversy,  
 W85-00276 1801 6E

**COBB, P. M.**  
 Analysis of Leaky Aquifer Pumping Test Data: An Automated Numerical Solution Using Sensitivity Analysis,  
 W85-00315 1801 2F

**COBB, S. M.**  
 Note on Some Investigations Carried out in the Area of the Sudan Plain to be Affected by the Jonglei Canal,  
 W85-01028 1802 6G

**COBB, S. P.**  
 Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 4: Diel Periodicity of Benthic Macroinvertebrate Drift,  
 W85-06995 1812 2A

**COBOS, C. R.**  
 Shoaling of Port of Astoria, Oregon, by Sediment from Mt. St. Helens Eruption,  
 W85-06302 1812 2J

**COCCAGNA, L.**  
 Experiments in Colour Removal from Surface Water by Means of the OFSY System,  
 W85-06813 1812 5F

**COCCI, A. A.**  
 Anaerobic Pretreatment Facility also Provides Sludge Disposal Capability and Source of Renewable Energy for Food Processor,  
 W85-05566 1810 5D

Anaerobic Treatment Key to Pollution Control and Solids Disposal with Energy Recovery for a Food Processor,  
 W85-05229 1810 5D

Performance of a Potato Processing Wastewater Treatment Plant: A Case History,  
 W85-05565 1810 5D

**COCHLAN, W. O.**  
 Frontal Zone Analysis at the Mouth of a Fjord - Jervis Inlet, British Columbia,  
 W85-06876 1812 2L

**COCHRAN-STAFIRA, D. L.**  
 Diatom Flora of a Kettle-Hole Bog in Relation to Hydrarch Succession Zones,  
 W85-01023 1802 2L

**COCHRANE, H. C.**  
 Economics of Timing Storm Drainage Improvements,  
 W85-03159 1806 6B

**COCK, J. H.**  
 Water Use Efficiency of Cassava. I. Effects of Air Humidity and Water Stress on Stomatal Conductance and Gas Exchange,  
 W85-01108 1802 2I

AUTHOR INDEX

COLLINS, M. A.

Water Use Efficiency of Cassava. II. Differing Sensitivity of Stomata to Air Humidity in Cassava and Other Warm-Climate Species, W85-01109	1802 2I	COLARULLO, S. J.	Identification of an Optimal Groundwater Management Strategy in a Contaminated Aquifer, W85-03141	1806 4B	COLGAN, P. W.	Mortality of Early Life Stages of Largemouth Bass, <i>Micropterus salmoides</i> Due to Pentachlorophenol Exposure, W85-05014	1810 5C
COCKBURN, A. G.		COLARUOTOLO, J. F.	Enhanced Biological Treatment of Leachates from Industrial Landfills, W85-05299	1810 5D	COLINET, E.	Certification of the Contents of Some Heavy Metals (Cd, Co, Cu, Mn, Hg, Ni, Pb, and Zn) in Three Types of Sewage Sludge, W85-03279	1807 5A
Biological Considerations in the Setting of Quality Standards for the Tidal Thames, W85-04509	1809 5G	COLE, B. E.	Seasonal Changes in the Chemistry and Biology of a Meromictic Lake (Big Soda Lake, Nevada, U.S.A.), W85-05756	1810 2H	COLINS, T. M.	Plankton of an Acid-Stressed Lake (Kejimkujik National Park, Nova Scotia, Canada); Part 1, Design and Water Chemistry Results of an Enclosure Experiment, W85-02637	1805 2H
Pollution Management and the Tidal Thames, W85-04527	1809 5G	COLE, C. A.	Impact of Conservation on Rates and Operating Costs, W85-06031	1811 6C	COLINVAUX, P. A.	Discovery of Permanent Amazon Lakes and Hydraulic Disturbance in the Upper Amazon Basin, W85-04307	1808 2H
CODD, G. A.		COLE, D. R.	Restoration of Failing On-Site Wastewater Disposal Systems Using Water Conservation, W85-01656	1804 5D	COLLE, D. E.	Prediction of Chlorophyll a Concentrations in Florida Lakes: Importance of Aquatic Macrophytes, W85-00154	1801 2H
Toxic Blue-Green Algal Blooms in Europe: A Growing Problem, W85-03199	1806 5C	COLE, R. G.	Empingham Reservoir Project (Rutland Water), W85-06173	1811 8A	COLLERAN, E.	Silage Effluent Digestion by an Upflow Anaerobic Filter, W85-00556	1802 5F
COE, J. Q.		COLE, R. H.	Preliminary Findings of the Priority Pollutant Monitoring Project of the Nationwide Urban Runoff Program, W85-01661	1804 5A	COLLEY, M. D.	Water Authority View of Trade Effluent Control, W85-03017	1806 5D
Optimal Operation of California Aqueduct, W85-06033	1811 4A	COLEMAN, D. R.	Rapid, Sensitive, Gas Chromatographic Determination of Diethyl Malonate and Diethyl Succinate in Water Facilitated by Sorbent-Tube Preconcentration, W85-00167	1801 5A	COLLIAS, E. E.	Case Study of the Abuse of Science in Sewage Planning, W85-04379	1808 6B
COE, R.		COLEMAN, G. A.	Runoff, Soil, and Nutrient Losses from Range-land and Dry-Farmed Cropland in the Southern High Plains, W85-05970	1811 5B	COLLIENNE, R. H.	Photoreduction of Iron in the Epilimnion of Acidic Lakes, W85-01588	1803 2H
Use of Rainfall Models in Agricultural Planning, W85-01066	1802 2B	COLEMAN, W. E.	Gas Chromatography/Mass Spectroscopy Analysis of Mutagenic Extracts of Aqueous Chlorinated Humic Acid. A Comparison of the Byproducts to Drinking Water Contaminants, W85-02345	1805 5B	COLLIER, T. K.	Effect of Aroclor 1254 on the Biological Fate of 2,6-Dimethylnaphthalene in Coho Salmon ( <i>Oncorhynchus kisutch</i> ), W85-04351	1808 5B
COETZEE, B.		COLEMAN, W. M. III.	Identification and Measurement of Components in Gasoline, Kerosene, and No. 2 Fuel Oil that Partition into the Aqueous Phase after Mixing, W85-02199	1805 5B	COLLINS, C. A.	Selected Ground-Water Data in Parts of Gilliam, Morrow, and Umatilla Counties, Oregon, W85-00602	1802 7C
Practical Steps Leading Toward the Effluent-Free Mill, W85-06058	1811 5D	COLEMAN, W. R.	Environmental Chemistry of 1,2-Propanediol Dinitrate: Azeotrope Formation, Photolysis and Biodegradability, W85-03220	1807 5D	WATER RESOURCES OF WESTERN DOUGLAS COUNTY, OREGON, W85-00590	1802 2A	
COFIELD, C. R.		COLER, R. A.	Changes in Oxygen Consumption and Nitrogen Metabolism in the Dragonfly <i>Somatochlora cingulata</i> Exposed to Aluminum in Acid Waters, W85-05867	1811 5C	COLLINS, C. H.	Mycobacteria in Water, W85-03298	1807 5B
Differential Accumulation of Selenium among Axial Muscle, Reproductive and Liver Tissues of Four Warmwater Fish Species, W85-01385	1803 5C	COHEN, S. Z.	Effect of Mineral Acids and Aluminum from Coal Leachate on Substrate Periphyton Composition and Productivity, W85-02246	1805 5C	COLLINS, E. R.	Livestock Lagoon Systems for Disposal of Pesticide Wastes, W85-03381	1807 5D
COGELS, O. G.		COHAN, D. B.	Effect of Trichloroacetic Acid, a New Contaminant Found from Chlorinating Water with Organic Material, on Dragonfly Nymphs, W85-04478	1809 5C	COLLINS, J. J.	Evaluation of Corrosion Control Indices for New England Waters, W85-07064	1812 5F
Irrigation System Uniformity Function Relating the Effective Uniformity of Water Application to the Scale of Influence of the Plant Root Zones, W85-05938	1811 3F	COHEN, Y.	Laboratory Assessment of the Toxicity of Urban Runoff on the Fathead Minnow ( <i>Pimephales promelas</i> ), W85-02124	1804 5C	COLLINS, L.	Channel Change, Sediment Transport, and Fish Habitat in a Coastal Stream: Effects of an Extreme Event, W85-05069	1810 2E
COGGER, C. G.		COHEN, Y.	Mercury Pollution in Sediments, Benthic Organisms and Inshore Fishes of Haifa Bay, Israel, W85-04863	1809 5B	COLLINS, M. A.	Evaluation of Fisherman Benefits Stemming from Special Use Fishery Management Programs, W85-01831	1804 6B
General Guidelines for Subsurface Treatment of Wastewater, W85-00080	1801 5D	COKER, R. D.	Atmospheric Input of Heavy Metals Chronicled in Lake Sediments of the Algonquin Provincial Park, Ontario, Canada, W85-01104	1802 5B	PA-45		
COGNET, L.		COHEN, Y.	Atmospheric Input of Heavy Metals Chronicled in Lake Sediments of the Algonquin Provincial Park, Ontario, Canada, W85-01104	1802 5B			
Combination of Continuous Mode Liquid-Liquid Extraction with Coupled GC-MS for the Analysis of Pesticides in Water (Combinaison D'Une Cellule D'Extraction Liquide-Liquide en Continu et D'Un Couplage CG-SM en Vue De L'Analyse Des Pesticides Dans Les Eaux), W85-02913	1806 5A	COHAN, D. B.	Sludge Incineration and Precipitant Recovery, Vol. IV: Pilot Scale Multiple-Hearth Furnace Investigations, W85-06992	1812 5E			
COHAN, D. B.		COHEN, D. B.	Sludge Incineration and Precipitant Recovery, Vol. IV: Pilot Scale Multiple-Hearth Furnace Investigations, W85-06992	1812 5E			
1,2-Dichloropropane (1,2-D)-1,3-Dichloropropene (1,3-D), W85-06332	1812 5C	COHEN, S. Z.	Approximating Pollutant Transport to Ground Water, W85-00349	1801 5B			
COHEN, D. B.		COHEN, S. Z.	Potential Pesticide Contamination of Ground-water from Agricultural Uses, W85-06784	1812 5B			
Sludge Incineration and Precipitant Recovery, Vol. IV: Pilot Scale Multiple-Hearth Furnace Investigations, W85-06992	1812 5E	COHEN, Y.	Mercury Pollution in Sediments, Benthic Organisms and Inshore Fishes of Haifa Bay, Israel, W85-04863	1809 5B			
COHEN, S. Z.		COHEN, Y.	Atmospheric Input of Heavy Metals Chronicled in Lake Sediments of the Algonquin Provincial Park, Ontario, Canada, W85-01104	1802 5B			
Approximating Pollutant Transport to Ground Water, W85-00349	1801 5B	COKER, R. D.	Atmospheric Input of Heavy Metals Chronicled in Lake Sediments of the Algonquin Provincial Park, Ontario, Canada, W85-01104	1802 5B			
Potential Pesticide Contamination of Ground-water from Agricultural Uses, W85-06784	1812 5B	COHAN, D. B.	Sludge Incineration and Precipitant Recovery, Vol. IV: Pilot Scale Multiple-Hearth Furnace Investigations, W85-06992	1812 5E			
COHEN, Y.		COHAN, D. B.	Sludge Incineration and Precipitant Recovery, Vol. IV: Pilot Scale Multiple-Hearth Furnace Investigations, W85-06992	1812 5E			
Mercury Pollution in Sediments, Benthic Organisms and Inshore Fishes of Haifa Bay, Israel, W85-04863	1809 5B	COHEN, S. Z.	Approximating Pollutant Transport to Ground Water, W85-00349	1801 5B			
COKER, R. D.		COHEN, S. Z.	Potential Pesticide Contamination of Ground-water from Agricultural Uses, W85-06784	1812 5B			
Atmospheric Input of Heavy Metals Chronicled in Lake Sediments of the Algonquin Provincial Park, Ontario, Canada, W85-01104	1802 5B	COHAN, D. B.	Sludge Incineration and Precipitant Recovery, Vol. IV: Pilot Scale Multiple-Hearth Furnace Investigations, W85-06992	1812 5E			

## AUTHOR INDEX

**COLLINS, S. G.**

COLLINS, S. G.  
1981-1982 Surge of Hazard Glacier, Yukon Territory,  
W85-00959 1802 2C

Flow, Thermal Structure, and Subglacial Conditions of a Surge-Type Glacier,  
W85-00958 1802 2C

**COLLINS, T. J.**  
Inspection Methods for Water Tanks and Reservoirs,  
W85-03277 1807 5F

**COLLINS, T. M.**  
Comparison of Plankton-Water Chemistry Relationships in Three Acid Stressed Lakes in Nova Scotia, Canada,  
W85-04911 1809 2H

**COLLISON, G. H.**  
Analysis of Underdrain for Waste Disposal Leachate,  
W85-05372 1810 5E

**COLMAN, B.**  
Persistence and Fate of 2,4-D Butoxyethanol Ester in Artificial Ponds,  
W85-06621 1812 5B

**COLOMBINI, M. P.**  
Electrochemical Speciation and Determination of Organometallic Species in Natural Waters,  
W85-02309 1805 5A

**COLT, J.**  
Seasonal Changes in Dissolved-Gas Supersaturation in the Sacramento River and Possible Effects on Striped Bass,  
W85-03247 1807 5C

**COLWELL, R. R.**  
Influence of Water Temperature, Salinity, and pH on Survival and Growth of Toxicigenic *Vibrio cholerae* Serovar O1 Associated with Live Copods in Laboratory Microcosms,  
W85-02601 1805 5B

Numerical Taxonomy of Phenanthrene-Degrading Bacteria Isolated from the Chesapeake Bay,  
W85-03433 1807 5B

**COLYER, P. J.**  
Design Storm for a Tropical Location with Limited Data,  
W85-01678 1804 2B

**COMBA, M. E.**  
Tracking River Plumes with Volatile Halocarbon Contaminants: The Niagara River-Lake Ontario Example,  
W85-04715 1809 5B

**COMBS, L. J.**  
Water-Resources Investigations of the U.S. Geological Survey in Kansas--Fiscal Years 1981 and 1982,  
W85-00041 1801 7C

**COMELLES, M.**  
Limnology of Gallicant Lake, Aragon, Northeastern Spain,  
W85-05757 1810 2H

Preliminary Grouping of the Small Epicontinental Water Bodies in Spain and Distribution of Crustacea and Charophyta,  
W85-05653 1810 2H

**COMERFORD, N. B.**  
Comparing Soil Tests for a Forested Acid Sandy Soil Topdressed with Sewage Effluent,  
W85-02878 1806 5E

**COMFORT, G.**  
Behaviour of Crude Oil Spilled Under Multi-Year Ice,  
W85-06987 1812 5B

**COMIN, F. A.**  
Limnology of Gallicant Lake, Aragon, Northeastern Spain,  
W85-05757 1810 2H

Physico-chemical Characteristics and Phytoplankton of the Encanizada, Tancada and Buda Coastal Lagoons (Ebro River Delta) (Características Fisicas y Químicas y Fitoplancton de las Lagunas Costeras, Encanizada, Tancada y Buda (Delta del Ebro)),  
W85-05749 1810 2L

**COMISKEY, S. J.**  
Vegetable Processing Wasteflows: Liability or Asset,  
W85-05392 1810 5E

**COMOLET, R.**  
Study of a Water-Hammer Protection System in Line (Etude d'un Système Anti-Bélier en Ligne),  
W85-03588 1807 8A

**COMPEAU, G.**  
Methylation and Demethylation of Mercury Under Controlled Redox, pH, and Salinity Conditions,  
W85-03737 1807 5B

**CONDÉ, A. L.**  
Relative Bias of Several Fisheries Instream Flow Methods,  
W85-03835 1808 2E

**CONDRA, J. S.**  
Developing Cost Estimating Methods for Surface-Water Intake Structures,  
W85-06951 1812 6C

**CONEJO, J. G. L.**  
Capacity Expansion of São Paulo Water Supply,  
W85-06034 1811 6A

**CONFORTI, P. M.**  
Effect of Population Density on the Results of the Study of Water Supplies in Five California Counties,  
W85-02707 1806 5C

**CONGJIE, C.**  
Relationships Between Electrical Conductivity, Chlorinity and Density of Coastal Waters of China (in Chinese),  
W85-02382 1805 2L

**CONLEY, D. J.**  
Variations in *Melosira islandica* Valve Morphology in Lake Ontario Sediments Related to Eutrophication and Silica Depletion,  
W85-07072 1812 2H

**CONNELL, D. W.**  
Factors Influencing Concentrations of Polychlorinated Biphenyls in Organisms from an Estuarine Ecosystem,  
W85-00787 1802 5B

Oxygen Budget for an Urban Estuary,  
W85-00777 1802 2L

**CONNER, J. V.**  
Larval Fish of Selected Aquatic Habitats on the Lower Mississippi River,  
W85-06969 1812 6G

**CONNER, M. S.**  
Comparison of the Carcinogenic Risks from Fish vs. Groundwater Contamination by Organic Compounds,  
W85-02110 1804 5C

**CONNERS, M. E.**  
Particulate Allochthonous Inputs: Relationships with Stream Size in an Undisturbed Watershed,  
W85-03309 1807 2H

**CONOVER, D. M.**  
Effect of Furrow Diking, Subsoiling, and Slope Position on Crop Yields,  
W85-06186 1812 3F

**CONRAD, R.**  
Production and Consumption of Carbon Monoxide in a Eutrophic Lake,  
W85-01585 1803 2H

Production and Consumption of Hydrogen in a Eutrophic Lake,  
W85-00104 1801 2H

**CONSTABLE, D. J. C.**  
Comparison of Solvent Reduction Methods for Concentration of Polycyclic Aromatic Hydrocarbon Solutions,  
W85-03670 1807 5A

**CONSTABLE, G. A.**  
Irrigation for Crops in a Sub-Humid Environment, VII. Evaluation of Irrigation Strategies for Cotton,  
W85-05165 1810 3F

**CONTA, J. F.**  
Percolation Tests, Soil Texture, and Saturated Hydraulic Conductivity in Lacustrine Soils in North Dakota,  
W85-06717 1812 2G

**COOK, C. S.**  
Field Water Relations of Sonoran Desert Annuals,  
W85-02817 1806 2I

**COOK, E. R.**  
D/H Ratios of Sap in Trees: Implications for Water Sources and Tree Ring D/H Ratios,  
W85-04758 1809 2I

**COOK, J. A.**  
Fate of Contaminants During Treatment of H-Coal Process Wastewaters,  
W85-04878 1809 5D

**COOK, R. B.**  
Distributions of Ferrous Iron and Sulfide in an Anoxic Hypolimnia,  
W85-00149 1801 2H

**COOK, S.**  
Nitrification Dynamics in the Oxidation Ditch Wastewater Treatment Process,  
W85-01432 1803 5D

**COOK, W. G.**  
Ultraviolet Disinfection of Secondary Effluent,  
W85-01654 1804 5D

**COOKE, G. D.**  
Control of Nuisance Aquatic Plants With Burlap Screen,  
W85-04053 1808 4A

**COOKE, J. B.**  
Progress in Rockfill Dams,  
W85-01870 1804 8A

**COOKE, J. G.**  
Effect of Storms on Nitrification Rates in a Small Stream,  
W85-06730 1812 2K

Nitrate Loss and Transformation in 2 Vegetated Headwater Streams,  
W85-06795 1812 2H

Water Quality of the Waiohewa Stream, Rotoura,  
W85-01634 1804 5B

**COOLEY, J.**  
Bacterial Degradation of Selected Organics in Natural Waters of Northeastern Minnesota,  
W85-06863 1812 5B

**COOLEY, J. H.**  
Applying Liquid Sludge to Forest Land: A Demonstration,  
W85-05389 1810 5E

**COOLEY, K. R.**  
Testing of the SPUR Hydrology Component on Rangeland Watersheds in Southwest Idaho,  
W85-03395 1807 2E

## AUTHOR INDEX

CORTI, R. M.

<b>COONEY, J. D.</b>				
Effects of Acridine and Temperature on the Survival, Development, Growth, and Reproduction of Diaptomus clavipes Schacht, W85-03222	1807	5C		
Effects of Temperature, Feeding and Acridine on Reproduction of the Calanoid Copepod, Diaptomus clavipes Schacht, W85-05850	1811	5C		
<b>COOPER, A. B.</b>				
Activities of Benthic Nitrifiers in Streams and Their Role in Oxygen Consumption, W85-04087	1808	2H		
Nitrate Loss and Transformation in 2 Vegetated Headwater Streams, W85-06795	1812	2H		
<b>COOPER, C. M.</b>				
Sediment Trap Efficiency of a Small Reservoir, W85-03352	1807	2J		
<b>COOPER, J. J.</b>				
Limnology of a Desertic Terminal Lake, Walker Lake, Nevada, U.S.A., W85-04064	1808	2H		
<b>COOPER, K. R.</b>				
Uptake, Elimination, and Metabolism of 14C-Picric Acid and 14C-Picramic Acid in the American Oyster ( <i>Crassostrea virginica</i> ), W85-03221	1807	5B		
<b>COOPER, R. C.</b>				
Graphical Analysis of the Interrelationships among Waterborne Asbestos, Digestive System Cancer and Population Density, W85-02708	1806	5C		
<b>COOPER, R. N.</b>				
Recovery of Protein from Slaughterhouse Effluents by Double Adjustment of pH, W85-05253	1810	5D		
<b>COOPER, W. J.</b>				
Bromide-Oxidation Interactions and THM Formation: A Literature Review, W85-06490	1812	5B		
Chlorine Utilization during Trihalomethane Formation in the Presence of Ammonia and Bromide, W85-02806	1806	5B		
Elimination of Ammonia Interference in the Purge-and-Trap GC Determination of Organohalogens in Water, W85-02811	1806	5A		
Simplified Liquid-Liquid Extraction Method for Analysis of Trihalomethanes in Drinking Water, W85-00697	1802	5A		
<b>COPELAND, B. J.</b>				
Traveling Screens as Sampling Gear for Vertical Distribution Studies, W85-01842	1804	7B		
<b>COPELAND, R. R.</b>				
Pointe Coupee Pumping Station Siphon Upper Pointe Coupee Loop Area, Louisiana: Hydraulic Model Investigation, W85-06961	1812	8A		
Pollution Control Facilities Project Southeastern Oakland County Sewage Disposal System, Oakland County, Michigan: Hydraulic Model Investigation, W85-06937	1812	5G		
<b>COPP, H.</b>				
Mechanics of Mudflows, W85-01816	1804	8B		
<b>CORAPCIOGLU, M. Y.</b>				
Transport and Fate of Microorganisms in Porous Media: A Theoretical Investigation, W85-01173	1803	5B		
<b>CORBETT, E. S.</b>				
Best Management Practices for Controlling Nonpoint-Source Pollution on Forested Watersheds, W85-05971	1811	5G		
Thermal Alteration of Streams Draining Clear-cut Watersheds: Quantification and Biological Implications, W85-00421	1801	5C		
<b>CORBETT, R. G.</b>				
Retrospective Assessment of a Potential Cadmium Hazard, W85-06448	1812	5C		
<b>CORBIC, M.</b>				
Impact Loads of Ships on Structures (Problemes des chocs de bateaux sur les ouvrages), W85-00379	1801	8C		
<b>CORBO, P.</b>				
Anaerobic Treatment of Concentrated Industrial Wastewater, W85-04877	1809	5D		
Microbial Responses to Organic Species in Industrial Landfill Leachate, W85-05424	1810	5D		
<b>CORBRIDGE, J. N. JR.</b>				
Surface Rights in Artificial Watercourses, W85-06533	1812	6E		
<b>CORCORAN, E.</b>				
Occurrence and Toxicity of Herbicides in Reef Building Corals, W85-03313	1807	5C		
<b>CORCOS, G. M.</b>				
Mixing Layer: Deterministic Models of a Turbulent Flow. Part 3. The Effect of Plane Strain on the Dynamics of Streamwise Vortices, W85-00714	1802	2E		
<b>CORDERY, I.</b>				
Time Patterns of Rainfall For Estimating Design Floods on Frequency Basis, W85-01687	1804	2B		
<b>CORDES, E. H.</b>				
Ground Water Instrumentation Program of the U.S. Geological Survey, W85-03181	1806	7B		
<b>COREY, A. T.</b>				
Application of the Potential Concept to Soil Water Equilibrium and Transport, W85-05178	1810	2G		
<b>CORKLE, D. B.</b>				
Computer Control of a Small Wastewater Treatment Plant, W85-05297	1810	5D		
<b>CORMACK, J. W.</b>				
Pilot Study for the Removal of Priority Pollutants by the PACT Process, W85-0425	1810	5D		
<b>CORNET, A.</b>				
Simulation of the Utilization of Water and of Plant Production of a Sahelian Phytophenome in Senegal (Simulation de l'utilisation de l'eau et de la production vegetale d'une phytophenome sahelienne du Senegal), W85-01179	1803	2I		
<b>CORNETT, R. J.</b>				
Dependence of Hypolimnetic Oxygen Consumption on Ambient Oxygen Concentration: Fact or Artifact, W85-02149	1804	2H		
<b>CORNIER, P.</b>				
Impact Loads of Ships on Structures (Problemes des chocs de bateaux sur les ouvrages), W85-00379	1801	8C		
<b>CORNISH, K. A.</b>				
Economical Recording Tipping-Bucket Rain Gauge, W85-01067	1802	2B		
<b>CORNISH, P. S.</b>				
Effects of Soil Bulk Density and Water Regimen on Root Growth and Uptake of Phosphorus by Ryegrass, W85-06098	1811	2G		
<b>CORNWELL, D. A.</b>				
Alum Production from Aluminum Etching Wastes, W85-05237	1810	5D		
Declining-Rate Filters: Regulatory Aspects and Operating Results, W85-04407	1808	5F		
<b>CORR, S. H.</b>				
Treatment of Beef Slaughtering and Processing Wastewaters using Rotating Biological Contactors, W85-05409	1810	5D		
<b>CORRAL, M. A. JR.</b>				
Distribution of Selected Chemical Constituents in Water from the Floridan Aquifer, Southwest Florida Water Management District, W85-01928	1804	7C		
<b>CORREA, M.</b>				
Changes in Oxygen Consumption and Nitrogen Metabolism in the Dragonfly Somatochlorella cingulata Exposed to Aluminum in Acid Waters, W85-05867	1811	5C		
Effects of Trichloroacetic Acid, a New Contaminant Found from Chlorinating Water with Organic Material, on Dragonfly Nymphs, W85-04478	1809	5C		
<b>CORRELL, D. L.</b>				
Atrazine Toxicity to Submersed Vascular Plants in Simulated Estuarine Microcosms, W85-01082	1802	5C		
Comparison of Precipitation and Land Runoff as Sources of Estuarine Nitrogen, W85-00649	1802	5B		
Nutrient Composition of the Soils of Three Single-Land-Use Rhode River Watersheds, W85-05358	1810	2A		
Seasonal and Annual Variation in Nutrient Discharge from Rhode River Watersheds and Certain Stream Water Quality Parameters, W85-05361	1810	5B		
Seasonal and Annual Variation in Rhode River Watershed Hydrology, W85-05359	1810	2B		
Seasonal and Annual Variation in the Precipitation Chemistry of the Rhode River Ecosystem, W85-05355	1810	2K		
Seasonal and Annual Variation in the Temperature and Moisture Content of Solids on Three Single Land-Use Rhode River Watersheds, W85-05357	1810	2G		
Seasonal and Yearly Variation in Meteorological Parameters at the Chesapeake Bay Center for Environmental Studies, W85-05354	1810	2A		
<b>CORSINI, A.</b>				
Two-Column Method for Preconcentration of Trace Metals in Natural Waters on Acrylate Resin, W85-05518	1810	5A		
<b>CORTI, R. M.</b>				
Automation for Industrial Water Treatment, W85-03321	1807	5F		

## AUTHOR INDEX

**CORWIN, D. L.**

**CORWIN, D. L.**  
Nonsingle-Valued Adsorption-Desorption of Bromacil and Diquat by Freshwater Sediments, W85-01123 1803 5B

**COSBY, B. J.**  
Dissolved Oxygen Dynamics of a Stream: Model Discrimination and Estimation of Parameter Variability Using an Extended Kalman Filter, W85-01428 1803 2H

Identification of Photosynthesis-Light Models for Aquatic Systems; I. Theory and Simulations, W85-00268 1801 2H

Identification of Photosynthesis-Light Models for Aquatic Systems; II. Application to a Macrophyte Dominated Stream, W85-00269 1801 2H

Modeling the Effects of Acid Deposition: Assessment of a Lumped Parameter Model of Soil Water and Streamwater Chemistry, W85-04792 1809 5C

Statistical Exploration of the Relationships of Soil Moisture Characteristics to the Physical Properties of Soils, W85-01341 1803 2G

**COSCIO, M.**  
Analysis of the Chemical Properties of Rain in Minnesota, W85-00246 1801 2K

**COSGRIFF, G. O.**  
Interactive Computer Modeling, Monitoring, and Control of Melbourne's Water Supply System, W85-05492 1810 5F

**COSKUNOGLU, O.**  
Descriptive Decision Process Model for Hierarchical Management of Interconnected Reservoir Systems, W85-02147 1804 4A

**COSLER, D. J.**  
Leachate Collection System Performance Analysis, W85-02261 1805 5G

**COSOVIC, B.**  
Electrochemical Determination and Characterization of Surface Active Substances in Freshwaters, W85-04972 1810 2H

**COSPER, E. M.**  
PCB Resistance within Phytoplankton Populations in Polluted and Unpolluted Marine Environments, W85-04864 1809 5C

**COSSA, D.**  
Behaviour of Dissolved Iodine in the Upper St. Lawrence Estuary, W85-07036 1812 2K

**COSTA ALMEIDA, C. A.**  
Deformations and Structure of Reservoirs in the Mesozoic Carbonate Series of Central Portugal (Eastern Part of Fatima Plateau) (Déformations Cassantes et Structure de Magasin dans la Couverture Carbonatée Mésozoïque du Centre du Portugal (Est du Plateau de Fatima)), W85-03537 1807 2F

**COSTELLA, A. C.**  
Periphyton Biomass and Species Composition in 21 British Columbia Lakes: Seasonal Abundance and Response to Whole-Lake Nutrient Additions, W85-00954 1802 5G

**COSTELLO, J. J.**  
Postprecipitation in Distribution Systems, W85-03627 1807 5F

**COTE, B.**  
Flood Routing in Rivers by Transfer Function Identification, W85-00523 1802 2E

**COTE, J. E.**  
Alum Sludge: A Sampling Method for the Radioactivity in Waters (Les boues d'alun: une Méthode d'échantillonnage des cours d'eau pour l'étude des Radionucléides), W85-04017 1808 5A

**COTE, M. G.**  
Subchronic Effects of a Mixture of 'Persistent' Chemicals Found in the Great Lakes, W85-04479 1809 5C

**COTE, R.**  
Toxic Aspects of Copper on the Biomass and Productivity of Phytoplankton of the Saguenay River, Québec (Aspects Toxiciques du Cuivre Sur La Biomasse et la Productivité du Phytoplancton de la Rivière du Saguenay, Québec), W85-00401 1801 5C

**COTRUVO, J. A.**  
Development of Revised Primary Drinking Water Regulations, W85-03625 1807 5F

Introduction: Evaluating the Benefits and Potential Risks of Disinfectants in Drinking Water Treatment, W85-01197 1803 5F

**COTTER, R. D.**  
Public-Supply Pumpage in Wisconsin, by Aquifer, W85-00618 1802 4B

**COTTON, G. K.**  
Mathematical Model for Estimating Scour Through Bridge Crossings, W85-06119 1811 2J

**COTTON, J. E.**  
Water Resources Data, New Hampshire and Vermont, Water Year 1982, W85-01933 1804 2E

**COUCH, J. A.**  
Effects of Carcinogens, Mutagens, and Teratogens on Non-Human Species (Aquatic Animals), W85-04230 1808 5C

Effects of Carcinogens, Mutagens, and Teratogens on Nonhuman Species (Aquatic Animals), W85-05128 1810 5C

**COUGHENOUR, M. B.**  
Mechanistic Simulation Analysis of Water Use, Leaf Angles, and Grazing in East African Graminoids, W85-05870 1811 2I

**COUILLARD, D.**  
Graph Theory Applied to Evaluation of Water Sciences Research Systems, W85-06697 1812 6B

Networks Planning for Water Investigations, W85-07098 1812 7A

PCBs and Organochlorine Pesticides in the St. Lawrence System (BPC ET Pesticides Organochlores Dans Le Système Saint-Laurent), W85-04581 1809 5B

**COULTAS, C. L.**  
Soils of Swamps in the Apalachicola, Florida, Estuary, W85-01641 1804 2L

**COURI, D.**  
Assessment of Maternal Toxicity, Embryotoxicity and Teratogenic Potential of Sodium Chlorite in Sprague-Dawley Rats, W85-01201 1803 5F

Metabolism and Pharmacokinetics of Alternate Drinking Water Disinfectants, W85-01200 1803 5F

Toxicological Effects of Chlorine Dioxide, Chlorite and Chlorate, W85-01199 1803 5F

**COURTNEY, L.**  
Effects of Carcinogens, Mutagens, and Teratogens on Nonhuman Species (Aquatic Animals), W85-05128 1810 5C

**COURTOT-COUPEZ, J.**  
Effect of High Chloride Ion Concentrations on the Quantitative Spectrophotometric Determination of Tribromamine in Aqueous Media (Influence des Ions Chlorure sur la Détermination Quantitative de la Tribromamine en Milieu Aqueux par Spectrophotométrie d'Absorption Electronique), W85-03547 1807 5A

**COUTANT, C. C.**  
Influences of Water Quality on Distribution of Striped Bass in a Tennessee River Impoundment, W85-06406 1812 5C

Striped Bass, Temperature, and Dissolved Oxygen: A Speculative Hypothesis for Environmental Risk, W85-06404 1812 5C

**COUTURE, P.**  
Detection with the Aid of a Bioassay (Selenastrum capricornutum) of the Effects of a Mine Waste on the Aquatic Environment: Toxicity or Enrichment of Essential Substances (Détection à l'aide d'un bio-essai (Selenastrum capricornutum) des répercussions d'un rejet minier sur l'environnement aquatique: toxicité ou enrichissement en substance essentielle), W85-02480 1805 2H

**COWART, J. B.**  
Hydrogeologic and Geochemical Studies of Selected Natural Radioisotopes and Barium in Groundwater in Illinois, W85-05122 1810 2K

**COWELL, B. C.**  
Biological Communities of Three Subtropical Florida Lakes of Different Trophic Character, W85-02240 1805 2H

**COWELL, D. W.**  
Karst Hydrogeology Within a Subarctic Peatland: Attawapiskat River, Hudson Bay Lowland, Canada, W85-00012 1801 2A

Karst Hydrology of the Bruce Peninsula, Ontario, Canada, W85-00011 1801 2F

**COWIE, B.**  
Analysis of Changes in the Invertebrate Community Along a Southern New Zealand Montane Stream, W85-04724 1809 2H

**COWLING, E. B.**  
Acid Rain and Atmospheric Deposition: Causes, Consequences, and Research Needs, W85-04235 1808 5B

**COX, B.**  
Study of Combined Acid/Additive Seawater Feed Treatment, W85-07092 1812 3A

**COX, C. D.**  
Polyelectrolyte Selection for Water Treatment, W85-06587 1812 5F

**COX, D. A.**  
Implications of Treating Water Containing Polynuclear Aromatic Hydrocarbons with Chlo-

## AUTHOR INDEX

**CROCKETT, A. B.**

rine; A Gas Chromatographic-Mass Spectrometric Study, W85-01207	1803 5B	Chromatography and Soft-Ionization Mass Spectrometry, W85-02808	1806 5A	<b>CRESPO, M.</b> Phosphorus Compounds in the Sediment of the Sau Reservoir (Barcelona, NE Spain) Throughout its Twenty-year Existence, W85-05638	1810 2H
<b>COX, S. K.</b> Sediment and Nutrient Export in Runoff from Burned and Harvested Pine Watersheds in the South Carolina Piedmont, W85-06714	1812 5B	<b>CRAUN, G. F.</b> Epidemiology Study of the Use of Asbestos-Cement Pipe for the Distribution of Drinking Water in Escambia County, Florida, W85-02709	1806 5C	<b>CRESPO, S.</b> In Vitro Study of the Effects of Zinc on Osmoregulatory Processes, W85-02840	1806 5C
<b>COX, W. E.</b> Minimum Flow Protection in Riparian States, W85-06028	1811 6E	<b>CRAYEN, M. A.</b> Histopathology of <i>Mercenaria mercenaria</i> as an Indicator of Pollutant Stress, W85-05899	1811 5C	<b>CRESSLER, C. W.</b> Ground Water in the Greater Atlanta Region, Georgia, W85-00866	1802 2F
Virginia's Water Law: Resolving the Interjurisdictional Transfer Issue, W85-02183	1805 6D	<b>CRAWFORD, A. M.</b> Coupled Heat and Moisture Flow Through Soils, W85-03814	1808 2G	<b>CRESSWELL, L. W.</b> AQAT: A Mobile Wastewater Treatability Assessment System, W85-05573	1810 5D
Waste Application to Land: The Land-Use Issue, W85-01564	1803 5D	<b>CRAWFORD, E. A.</b> Heavy Metals in a Contaminated Australian Estuary - Dispersion and Accumulation Trend, W85-03109	1806 5B	<b>CRESSWELL, P. J.</b> Design and Development of the Flood Storage and Amenity Reservoirs of the Rother Valley Country Park, W85-03883	1808 4A
<b>COYLE, J. A.</b> Applying Analytical Techniques to Solve Groundwater Contamination Problems, W85-05478	1810 5G	<b>CRAWFORD, M. M.</b> Transfer Function Models of Daily Urban Water Use, W85-06496	1812 6D	<b>CRIAUD, A.</b> Use of the L'vov Platform and Molybdenum Coating for the Determination of Volatile Elements in Thermomineral Waters by Atomic Absorption Spectrometry, W85-06253	1812 5A
<b>CRABTREE, R. W.</b> Hydrochemical Budgets for a Magnesian Limestone Catchment in Lowland England, W85-03083	1806 2K	<b>CRAWFORD, P. J.</b> Breakdown of Conifer Needle Debris in a New Northern Reservoir, Southern Indian Lake, Manitoba, W85-00639	1802 2H	<b>CRIPE, G. M.</b> Effect of Chronic Exposure to EPN and to Guthion on the Critical Swimming Speed and Brain Acetylcholinesterase Activity of Cyprinodon variegatus, W85-02379	1805 5C
<b>CRAFT, D.</b> Microsystem Sediment-Water Simulation: A Practical Technique for Predicting Reservoir Water Quality, W85-06358	1812 5B	<b>CRAWFORD, R. D.</b> Evaluation of Artificial Wetlands in North Dakota: Recommendations for Future Design and Construction, W85-06066	1811 6G	<b>CRISP, D. T.</b> Effects of Impoundment upon Fish Populations in Afferent Streams at Cow Green Reservoir, W85-04385	1808 6G
Microsystem Sediment-Water Simulation Study for the Proposed Jordanelle Reservoir, Heber City, Utah, W85-05305	1810 5B	<b>CRAWFORD, R. L.</b> Methane Production in Minnesota Peatlands, W85-02135	1804 2L	<b>CRIST, M. A.</b> Computer Program and Data Listing for Two-Dimensional Ground-Water Model for Laramie County, Wyoming, W85-01787	1804 7C
Use of Discriminant Analysis with Saturation Extract Date to Identify Dispersive Clay Soils, W85-04219	1808 8D	<b>CRAWFORD, T.</b> Problems of Causation in Private Legal Remedies for Damage from Acid Rain, W85-04185	1808 6E	Hydrologic Conditions in the Wheatland Flats Area, Platte County, Wyoming, W85-00031	1801 4B
<b>CRAIG, D.</b> Neutralization of Acid Runoff by Groundwater Discharge to Streams in Canadian Precambrian Shield Watersheds, W85-04268	1808 2K	<b>CRAWFORD, T. W.</b> Hydraulic Stabilization of Earth Structures, W85-03419	1807 8D	<b>CRISTESCU, C. C.</b> Some Problems About the Soil Erosion in the Vrancea Subcarpathians (Quelques Problèmes sur L'Erosion des Sols dans les Subcarpates de Vrancea), W85-06420	1812 2J
<b>CRAIG, J. R.</b> Predicting Concentration of Total Phosphorus and Chlorophyll a in a Lake with Short Hydraulic Residence Time, W85-06789	1812 2H	<b>CREASER, J. I.</b> Coupling of Groundwater and Open-Channel Flow, W85-01615	1803 2A	<b>CRITCHLEY, R. F.</b> Contribution of River Systems to the Input of Pollutants to the Marine Environment in Northern Europe, W85-01395	1803 5B
<b>CRAIG, P. J.</b> Role of Sulphide in the Formation of Dimethyl Mercury in River and Estuary Sediments, W85-03240	1807 5B	<b>CRECCO, V. A.</b> Effects of Fluctuations in Hydrographic Conditions on Year-Class Strength of American Shad ( <i>Alosa sapidissima</i> ) in the Connecticut River, W85-02535	1805 2L	<b>CRITES, R. W.</b> Process Design Manual, Land Treatment of Municipal Wastewater, W85-05194	1810 5D
<b>CRAIG, R. W.</b> Hydrology of the Newberry Volcano Caldera, Oregon, W85-00084	1801 2F	<b>CRECELLUS, E.</b> Polycyclic Aromatic Hydrocarbons in Washington Coastal Sediments: An Evaluation of Atmospheric and Riverine Routes of Introduction, W85-02346	1805 5B	<b>CROCI, B.</b> Data Transmission for Automatic Dam Control (Automatisierung der Talsperrenüberwachung), W85-01255	1803 4A
<b>CRAVEN, P. J.</b> Observations on the Ecological Importance of Salt Marshes in the Cumberland Basin, a Macrotidal Estuary in the Bay of Fundy, W85-06855	1812 2L	<b>CREE, C. N. L.</b> Resurrection of Deighton Sewage Treatment Works, W85-04512	1809 5D	<b>CROCKER, T. D.</b> Acid Deposition Control, A Benefit-Cost Analysis: Its Prospects and Limits, W85-04798	1809 6B
<b>CRANK, P. J.</b> State Engineer's Authority with Reference to Change of Use, Place of Use, Point of Diversion, and Means of Conveyance of Water Embraced by Water Permits, W85-02173	1805 6E	<b>CREEGER, S. M.</b> Potential Pesticide Contamination of Groundwater from Agricultural Uses, W85-06784	1812 5B	<b>CROCKETT, A. B.</b> Use of Simple Kinetic Models to Help Design Environmental Monitoring Systems, W85-05102	1810 5A
<b>CRATHORNE, B.</b> Nonvolatile Organic Compounds in Treated Waters, W85-01208	1803 5F	<b>CRESCUOLO, P. J.</b> Sludge Incineration and Precipitant Recovery, Vol. IV: Pilot Scale Multiple-Hearth Furnace Investigations, W85-06992	1812 5E		
Organic Compounds in Water: Analysis Using Coupled-Column High-Performance Liquid					

## AUTHOR INDEX

**CROLEY, T. E. II**

**CROLEY, T. E. II**  
Resolving Thiessen Polygons,  
W85-06054 1811 2A

**CROMARTIE, E.**  
Bird Use and Heavy Metal Accumulation in  
Waterbirds at Dredge Disposal Impoundments,  
Corpus Christi, Texas,  
W85-04480 1809 5B

**CROMEANS, T.**  
Effects of Bentonite Clay Solids on Poliovirus  
Concentration from Water by Microporous  
Filter Methods,  
W85-06141 1811 5A

**CROMER, R. N.**  
Irrigation of Monterey Pine with Wastewater:  
Effect on Soil Chemistry and Groundwater  
Composition,  
W85-03855 1808 5D

**CROSBY, D. G.**  
Photochemistry and Volatility of Drepamol in  
Water,  
W85-02721 1806 5B

**CROSKEY, H. M.**  
Estimating Generalized Flood Skew Coefficients  
for Michigan,  
W85-00849 1802 2E

**CROSS, J.**  
Reducing the Cost of High Technology Water  
Treatments,  
W85-06123 1811 5F

**CROSS, J. N.**  
Distribution of Fish in the Virgin River, a Tributary  
of the Lower Colorado River,  
W85-05710 1810 2H

**CROSS, W. H.**  
Nitrification of Anaerobically Treated Coal  
Gasifier Effluent,  
W85-02587 1805 5D

**CROSSER, M.**  
Use of the Double Alkali Flue Gas Desulfurization  
Process to Treat Electric Utility Metal  
Cleaning Wastes,  
W85-05438 1810 5D

**CROSSLAND, N. O.**  
Fate and Biological Effects of Methyl Parathion  
in Outdoor Ponds and Laboratory Aquaria; I.  
Fate,  
W85-02945 1806 5B

Fate and Biological Effects of Methyl Parathion  
in Outdoor Ponds and Laboratory Aquaria; II.  
Effects,  
W85-02946 1806 5C

**CROSSLEY, D. A. JR.**  
Inexpensive Weir and Proportional Sampler for  
Miniature Watershed Ecosystems,  
W85-02990 1806 7B

**CROSSLEY, R.**  
Controls of Sedimentation in the Malawi Rift  
Valley, Central Africa,  
W85-03216 1806 2J

**CROTTY, R. D.**  
Applicability of the Fluorescein Diacetate  
Method of Detecting Active Bacteria in Freshwater,  
W85-03306 1807 5A

**CROW, D. A.**  
Hydraulic Forces on Rails for Vertical Lift,  
High Head Gates,  
W85-06579 1812 8C

**CROW, F. R.**  
Comparative Performance of Two Runoff  
Models on Grassland Watersheds,  
W85-01183 1803 2A

**Soil Properties of Surface Mined Land,**  
W85-03392 1807 2G

**USDAHL Hydrologic Model,**  
W85-05340 1810 2A

**CROWE, A. S.**  
Simulation of Changes in Ground-Water Levels  
Associated with Strip Mining,  
W85-05731 1810 4C

**CROWLEY, F. W.**  
Application of Science to Water Supply Projects  
in Developing Countries,  
W85-06575 1812 5F

**CRUZZAT, P.**  
Some Aspects of the Water Relations Between  
Different Organs of the Same Plant,  
W85-03609 1807 2I

**CRUIZIAT, P.**  
Some Data and Reflections on the Drought Re-  
sistance Mechanisms of Maize and Sunflowers  
(Quelques Donnees et Reflexions sur les Mecan-  
ismes de Resistance a la Secheresse a Partir des  
Exemples du Mais et du Tournesol),  
W85-02333 1805 2I

**CRUM, S. J. H.**  
Contribution of Leaching of Diazinon, Parathion,  
Tetrachorvinphos and Triazophos from  
Glasshouse Soils to Their Concentrations in  
Water Courses,  
W85-01961 1804 5B

**CRUSE, R. M.**  
Shallow-Layer Soil Water Potential Changes  
Due to Waterdrop Impact,  
W85-00752 1802 2G

**CRUZ, R. R.**  
Annual Water-Resources Review, White Sands  
Missile Range, New Mexico, 1982,  
W85-01927 1804 2E

**CSANADY, G. T.**  
Milestones of Research on the Physical Limnol-  
ogy of the Great Lakes,  
W85-00918 1802 2H

**CSEH, T.**  
Two-Phase Anaerobic Fermentation of Liquid  
Swine Waste to Methane,  
W85-04659 1809 5D

**CSIKY, I.**  
Ion Chromatographic Determination of Nitrate  
and Sulfate in Natural Waters Containing Humic  
Substances,  
W85-02832 1806 2K

**CUBBY, P. R.**  
Effects of Impoundment upon Fish Populations  
in Afferent Streams at Cow Green Reservoir,  
W85-04385 1808 6G

**CUNINAT, R.**  
Small Hydroelectric Stations and the Environ-  
ment (Environnement et petites usines hydroelec-  
triques),  
W85-00381 1801 6G

**CULBERSON, C. H.**  
Chemistry of the Delaware Estuary. General  
Considerations,  
W85-01599 1803 2L

**CULLEN, K. T.**  
Application of a Microcomputer in the Analysis  
of Pumping Test Data in Confined Aquifers,  
W85-00361 1801 4B

**CULLEN, K. T.**  
Responses of Benthic Macroinvertebrate Species  
to Manipulation of Interstitial Detritus in Carnation  
Creek, British Columbia,  
W85-04841 1809 2H

**CULP, R. L.**  
Heavy Snow Loads Plague Reservoir Roof,  
W85-05482 1810 8A

**CULVER, D. A.**  
Trophic Ecology of Fish Rearing Ponds,  
W85-01833 1804 2H

**CUMBIE, P. M.**  
Histopathological, Hematological, Condition-  
Factor, and Organ Weight Changes Associated  
with Selenium Accumulation in Fish from  
Belews Lake, North Carolina,  
W85-02198 1805 5C

**CUMMINGS, G. A.**  
Swine Lagoon Effluent Applied to 'Coastal'  
Bermudagrass: II. Effects on Soil,  
W85-06612 1812 5D

**CUMMINGS, R. G.**  
Practically Irrigable Acreage and Economic  
Feasibility: The Role of Time, Ethics, and Dis-  
counting,  
W85-01251 1803 6E

**CUMMINGS, T. R.**  
Estimates of Dissolved and Suspended Sub-  
stance Yield of Stream Basins in Michigan,  
W85-01942 1804 5A

**CUMMINS, K. W.**  
Leaf Litter Processing in Aquatic Systems: A  
Two Variable Model,  
W85-00412 1801 2K

Stream Ecosystem Theory,  
W85-05662 1810 2E

**CUNHA, H. J.**  
Reduction of Costs and Liability Risks in Elec-  
tropolating Wastewater Treatment,  
W85-01852 1804 5D

**CUNNANE, C.**  
Factors Affecting Choice of Distribution for  
Flood Series,  
W85-05901 1811 2E

**CUNNINGHAM, A. B.**  
Mechanisms of Metal Adsorption from Aqueous  
Solutions by Waste Tyre Rubber,  
W85-01724 1804 5D

Water Management Using Interactive Simula-  
tion,  
W85-01567 1803 6A

**CUNNINGHAM, G. B.**  
Additional Tests on the Effect of Rainfall Inten-  
sity on Storm Flow and Peak Flow from Wild-  
Land Basins,  
W85-02166 1804 2E

**CUNNINGHAM, J. J.**  
Temporal Responses of the Macrophyte, Pot-  
amogeton perfoliatus L., and Its Associated Auto-  
trophic Community to Atrazine Exposure in Es-  
tuarian Microcosms,  
W85-05708 1810 5C

**CUOMO, A. R.**  
Characteristics and Modeling of Intake Vortices,  
W85-07100 1812 8B

**CURI, P. R.**  
Effects of Phosphorus and Nitrogen Enrichment  
on the Phytoplankton in a Tropical Reservoir  
(Lobo Reservoir, Brazil),  
W85-03694 1807 2H

**CURL, R. L.**  
Implicit-Adsorbate Model for Apparent Anoma-  
lies with Organic Adsorption on Natural Ad-  
sorbents,  
W85-03663 1807 5B

**CURRY, L. L.**  
Consumer Attitudes Toward Public Water  
Supply Quality: Dissatisfaction and Alternative  
Water Sources,  
W85-06347 1812 6D

## AUTHOR INDEX

DAILY, O. P.

<b>CURTIN, S. E.</b>	Difference Between the Potentiometric Surfaces of the Magothy Aquifer of September 1975 Differed from the Potentiometric Surface of September 1981 in Southern Maryland, W85-03931	1808 2F	Solute Transport in Heterogeneous Porous Formations, W85-03036	1806 2F
<b>CURTIS, A. A.</b>	Hysteresis Affected Water Movement in Scale Heterogeneous Profiles, W85-01346	1803 2G	Stochastic Modeling of Groundwater Flow by Unconditional and Conditional Probabilities: The Inverse Problem, W85-04793	1809 2F
<b>CURTIS, C.</b>	Acute and Chronic Toxicities of Arsenic(III) to Fathead Minnows, Flagfish, Daphnids, and an Amphipod, W85-02423	1805 5C	DAGGETT, P. M.	Distribution and Possible Interrelationships of Pathogenic and Nonpathogenic Acanthamoeba from Aquatic Environments, W85-02189
<b>CURTISS, D. A.</b>	Water Resources of Western Douglas County, Oregon, W85-00590	1802 2A	1805 5B	
<b>CURTISS, J. F.</b>	Computerized Distribution Records- CADD Paves the Way, W85-01902	1804 5F	DAGOVITZ, R.	Trace Metals in San Francisco Bay, California, near the Proposed San Luis Drain Discharge Site: A Preliminary Report, W85-03927
<b>CUSHING, C. E.</b>	Primary Production in Rattlesnake Springs, a Cold Desert Spring-Stream, W85-02347	1805 2E	1808 5A	
	Stream Ecosystem Theory, W85-05662	1810 2E	DAGUE, R. R.	Use of Long Solids Retention Times to Improve the Activated Sludge Biodegradation of a Complex Waste, W85-05551
<b>CUSHMAN, J. H.</b>	Fourier Interpretation of Multiphase Averaging Theory, W85-04172	1808 2F	1810 5D	
	Unifying the Concepts of Scale, Instrumentation, and Stochastics in the Development of Multiphase Transport Theory, W85-03567	1807 2J	DAHALE, S. D.	Stochastic Model of Drought, W85-05088
<b>CUSHMAN, R. M.</b>	Acute Toxicity of a Synthetic Oil, Aniline and Phenol to Laboratory and Natural Populations of Chironomid (Diptera) Larvae, W85-01445	1803 5A	1810 2B	
<b>CUSSACK, J. J.</b>	Water System Operation and Maintenance Utilizing Public Sector Employees and Private Service Contractors, W85-07059	1812 5F	DAHIYA, I. S.	Leaching of Soluble Salt During Infiltration and Redistribution, W85-05163
<b>CUTSHALL, N. H.</b>	Inventories and Sorption-Desorption Trends of Radiocesium and Radiocobalt in James River Estuary Sediments, W85-04601	1809 5B	1810 2G	
<b>CUTTANCE, P. M.</b>	Invertebrates, Macroalgae, and Chemical Features in Morainic Ponds near Lakes Tekapo and Ohau, Including New Distribution Records of Crustacea, W85-03073	1806 2H	DAHL, H.-J.	Water Resources Development and Management Plans; Part 5: Leine Pilot Project, Objectives of Nature Preservation as Ecological Valuation Compass for the Rivers of the Leine Basin (Bewirtschaftungsplane; Teil V: Pilotprojekt Leine, Zielvorstellungen des Naturschutzes als ökologischer Bewertungsrahmen für die Gewässer des Leinegebietes), W85-00965
<b>CZAKO, L.</b>	Two-Phase Anaerobic Fermentation of Liquid Swine Waste to Methane, W85-04659	1809 5D	1802 6G	
<b>CZAPIK, A.</b>	Effect of Waste Water on Ciliate Communities in the Biala Przemsza River, W85-00227	1801 2H	DAHL, M. M.	Preliminary Study of Solar Ponds for Salinity Control in the Colorado River Basin, W85-05306
<b>CZARNEZKI, J. M.</b>	Accumulation of Lead in Fish from Missouri Streams Impacted by Lead Mining, W85-07151	1812 5C	1810 3C	
<b>CZERNOCH, M.</b>	Effects of Exploration of the 'Zarabie' Bath on the Water Quality of the River Raba (South Poland), W85-02510	1805 5C	DAHLBLOM, P.	Dynamic Properties of Rainfall in Lund, W85-06637

## AUTHOR INDEX

**DAISAKU, I.**

**DAISAKU, I.**  
Fate of 2,4,6-Trichlorophenol, Pentachlorophenol, p-Chlorobiphenyl, and Hexachlorobenzene in an Outdoor Experimental Pond: Comparison between Observations and Predictions Based on Laboratory Data,  
W85-03227 1807 5B

**DAKSHINI, K. M. M.**  
Physiography and Limnology of Three Lakes in the Environs of the Union Territory of Delhi, India,  
W85-06012 1811 2H

**DAL PONT, G.**  
Method of Determining and Removing Sulphide to Allow the Determinations of Sulphate, Phosphate, Nitrite and Ammonia by Conventional Methods in Small Volumes of Anoxic Waters,  
W85-06163 1811 5A

**DALBO, C. E.**  
Responses of Developing Estuarine Macrofauna Communities to Drilling Muds,  
W85-01845 1804 5C

**DALE, H. M.**  
Aquatic Macrophyte Vegetation of an Isolated Island Lake Adjacent to Lake Nipigon, Ontario: A Comparative Study After a Fifty-six Year Interval,  
W85-04661 1809 2H

**DALE, M. S.**  
Determination of Subnanogram per Liter Levels of Earthy-Musty Odorants in Water by the Salted Closed-Loop Stripping Method,  
W85-01126 1803 5A

**DALELA, R. C.**  
Influence of Temperature on the Toxicity of Phenol and its Chloro- and Nitro-Derivatives to the Fish *Notopterus notopterus* (Pallas),  
W85-06661 1812 5C

**DALGA, N.**  
Study Cases of Operative Conditions of Municipal Treatment by Lagooning (Etude des Conditions de Fonctionnement et d'Exploitation de Quelques Cas Concrets de Traitement d'Eaux Residuaires Urbaines par Lagunage),  
W85-01976 1804 5D

**DALLY, W. R.**  
Suspended Sediment Transport and Beach Profile Evolution,  
W85-01503 1803 2J

**DALRYMPLE, R. J.**  
Lake Ontario Oxygen Model. 1. Model Development and Application,  
W85-04801 1809 2H

**DALSTED, N. L.**  
Water Requirements for Coal-fired Power Plants,  
W85-01241 1803 6D

**DALTON, F. N.**  
Time Domain Reflectometry Field Measurements of Soil Water Content and Electrical Conductivity,  
W85-06539 1812 2G

Time-Domain Reflectometry: Simultaneous Measurement of Soil Water Content and Electrical Conductivity with a Single Probe,  
W85-00220 1801 7B

**DALY, E. L. JR.**  
Heavy Metal Migration in Soil-Leachate Systems,  
W85-01868 1804 5B

**DAMASKOS, S. D.**  
General Stochastic Model for Predicting BOD and DO in Streams,  
W85-05443 1810 5B

**DAME, R. F.**  
Oyster Reefs as Processors of Estuarine Materials,  
W85-04483 1809 2L

**DAMMAN, A. W. H.**  
Copper and Lead Uptake by Aquatic Macrophytes in Eastern Connecticut, U.S.A.,  
W85-01084 1802 5B

**DAMODARAN, K. T.**  
Studies on the Distribution of Organic Matter Content in Sediments of the Ashtamudy Lake, Kerala,  
W85-01463 1803 2L

**DAMS, R.**  
Optimization and Evaluation of Reduction-Aeration/Amalgamation for the Analysis of Mercury in Drinking-Water by Cold-Vapour Atomic Absorption Spectrometry (CVAAS),  
W85-06057 1811 5A

**DANARD, M.**  
Model for Predicting Ice Accretion and Ablation in Water Bodies,  
W85-02797 1806 2C

**DANCER, B. N.**  
Note on a Membrane Filtration Method for the Concentration and Enumeration of Bacteriophages from Water,  
W85-06180 1812 5A

**DANDY, G. C.**  
Approximate Method for the Analysis of Uncertainty in Benefit-Cost Ratios,  
W85-05789 1810 6B

Pricing and Expansion of a Water Supply System,  
W85-04241 1808 6C

**DANE, J. H.**  
Effect of Temperature-Dependent Hydraulic Properties on Soil Water Movement,  
W85-05185 1810 2G

**DANIEL, C. C. III**  
Ground-Water Supply Potential and Procedures for Well-site Selection, Upper Cape Fear River Basin,  
W85-00584 1802 2F

**DANIEL, F. B.**  
Derivatization of Organic and Inorganic N-Chloramines for High-Performance Liquid Chromatographic Analysis of Chlorinated Water,  
W85-02807 1806 5A

**DANIEL, T. C.**  
Regression Equations for Predicting Available Phosphorus and Potassium in Soil Receiving Barnyard Discharges,  
W85-03379 1807 5B

Soil and Water Losses as Affected by Tillage and Manure Application,  
W85-02323 1805 2J

Soil Moisture Regimes of Three Conservation Tillage Systems,  
W85-04737 1809 2G

**DANIELOPOL, D. L.**  
Ecological Investigations on the Alluvial Sediments of the Danube in the Vienna Area - A Phreatobiological Project,  
W85-05656 1810 2J

**DANIELS, K.**  
Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 7: Management of Ecological Data in Large River Ecosystems,  
W85-06899 1812 6G

**DANIELS, K. L.**  
Acute Toxicity of a Synthetic Oil, Aniline and Phenol to Laboratory and Natural Populations of Chironomid (Diptera) Larvae,  
W85-01445 1803 5A

**DANIL'CHENKO, O. P.**  
Combined Effect of Salinity and Triethyl Stanic Chloride on the Development of the Marine Forms of Three-Spine Stickleback, *Gasterosteus aculeatus* (Gasterosteidae),  
W85-05750 1810 5C

**DANKERS, N.**  
Transportation of Water, Particulate and Dissolved Organic and Inorganic Matter between a Salt Marsh and the Ems-Dollard Estuary, The Netherlands,  
W85-02655 1805 2L

**DANOS, S. C.**  
Retrieval of Material from the Surface Microlayer with Screen and Plate Samplers and its Implications for Partitioning of Material within the Microlayer,  
W85-04895 1809 5A

Stratification of Microorganisms and Nutrients in the Surface Microlayer of Small Freshwater Ponds,  
W85-00407 1801 2H

**DARDEAU, E. A.**  
Aerial Survey Techniques to Map and Monitor Aquatic Plant Populations: Four Case Studies,  
W85-06955 1812 7B

Inventory and Assessment of Aquatic Plant Management Methodologies,  
W85-06898 1812 4A

**DARDEN, D.**  
Potentiometric Map of the Gordo Aquifer in Northeastern Mississippi, November and December 1982,  
W85-03943 1808 2F

Water-Level Maps of the Alluvial Aquifer, Northwestern Mississippi, April, 1982,  
W85-01926 1804 7C

**DARIMONT, T.**  
Determination of Nitrate in Drinking Water by Means of Ion Chromatography (Nitratbestimmung im Trinkwasser mit Hilfe der Ionen-Chromatographie),  
W85-01608 1803 5A

Drinking Water Situation in the Federal Republic of Germany at the Time of the Acceptance of the E.E.C. Drinking Water Directive (Die Trinkwassersituation in der Bundesrepublik Deutschland bei Übernahme der EG-Richtlinie Trinkwasser),  
W85-03591 1807 5F

**DARLING, M. E.**  
Water-Quality Assessment of the Illinois River Basin, Arkansas,  
W85-03925 1808 5B

**DAS GUPTA, A.**  
Pilot-Scale Investigation of Particle Retention During Artificial Recharge,  
W85-06886 1812 4B

**DAS, S. M.**  
Fish Suffocation in Lake Nainital (India) Caused by Pollution and Parasite Infection (Gibel'ryb v Ozere Nainital (Indiya) v Rezul'tate Zagryazneniya i Zarazheniya Parazitami),  
W85-06478 1812 5C

**DAS, V. S. R.**  
Differential Performance of Cleome gynandra L. (C4) and C. speciosa L. (C3) under Water, Stress and Recovery,  
W85-03219 1807 2I

## AUTHOR INDEX

DAVIS, J.

**DASBERG, S.**  
Time Domain Reflectometry Field Measurements of Soil Water Content and Electrical Conductivity,  
W85-06539 1812 2G

**DASCH, J. M.**  
Effect of Local Emissions on Wet and Dry Deposition in Southeastern Michigan,  
W85-01298 1803 5B

**DASGUPTA, D.**  
Heavy Metal Migration in Soil-Leachate Systems,  
W85-01868 1804 5B

Two-Dimensional Time-Dependent Simulation of Contaminant Transport from a Landfill,  
W85-02272 1805 5G

**DASGUPTA, P. K.**  
Thermodynamics of the Hydrogen Peroxide-Water System,  
W85-05118 1810 5B

**DASSENAKIS, M.**  
Trace Metals in a Tidal Mediterranean Embayment,  
W85-00802 1802 5B

**DATE, Y.**  
Quantitative Analysis of Phosphorus Cycle in the Shallow Brackish Lake Nakanoumi, Japan,  
W85-00761 1802 2H

Seasonal and Areal Features of the Lagoonal Environment in Lake Nakanoumi, a Shallow Coastal Lagoon in Japan,  
W85-01476 1803 6G

**DATEI, C.**  
Capacity and Type of Units for Small Run-of-River Plants,  
W85-03327 1807 8A

**DATSENKO, YU. S.**  
Model of the Development of Phytoplankton in the Ucha Reservoir,  
W85-04097 1808 2H

**DATTA, B.**  
Short-Term, Single, Multiple-Purpose Reservoir Operation: Importance of Loss Functions and Forecast Errors,  
W85-02658 1805 4A

Stochastic Optimization Model for Real-Time Operation of Reservoirs Using Uncertain Forecasts,  
W85-02360 1805 4A

**DAUBA, F.**  
Model for Rapid Growth Evaluation in Fishes: the Case of the Cyprinids of Some Large French Rivers,  
W85-05717 1810 2H

**DAUER, D. M.**  
Macrofaunal Communities of the Lower Chesapeake Bay. II. Lynnhaven Roads, Lynnhaven Bay, Broad Bay, and Linkhorn Bay. Benthic Studies of the Lower Chesapeake Bay 5,  
W85-02902 1806 2L

Use of Polychaete Feeding Guilds as Biological Variables,  
W85-02763 1806 5C

**DAUER, J. P.**  
Multi-Objective Optimization Model for Aquifer Management under Transient and Steady-State Conditions,  
W85-06562 1812 4B

**DAUMAS, R.**  
Bioturbation and Microbial Activity,  
W85-04704 1809 2L

**DAUMAS, S.**  
Bacteriological Study of Geothermal Spring-Waters Dating from Dogger and Trias Periods

in the 'Bassin Parisien' (Etude Bacteriologique des eaux géothermales du Dogger et du Trias du Bassin Parisien),  
W85-03111 1806 2F

**DAVAUD, E.**  
Basic Concepts and Associated Statistical Methodology in the Geochemical Study of Lake Sediments,  
W85-02064 1804 2J

**DAVE, G.**  
Acute Toxicity of Chromate, DDT, PCP, TPBS, and Zinc to *Daphnia magna* Cultured in Hard and Soft Water,  
W85-01092 1802 5C

Effect of pH on Pentachlorophenol Toxicity to Embryos and Larvae of Zebrafish (*Brachydanio rerio*),  
W85-02971 1806 5C

Effects of Lead on delta-Aminolevulinic Acid Dehydratase Activity, Growth, Hemoglobin Content, Reproduction in *Daphnia magna*,  
W85-06745 1812 5C

**DAVEY, S.**  
Revolutionary Experiments Turn Sludge into Fuel,  
W85-04771 1809 5E

**DAVID, E. L.**  
Quarter Century of Industrial Water Use and a Decade of Discharge Controls,  
W85-01382 1803 5D

**DAVID, L.**  
Description of the Multi-Annual Eutrophication Process of Shallow Lakes by a Discrete Time Watershed Development Model,  
W85-01305 1803 5C

**DAVID, M. B.**  
Sulfur Distribution in Lake Sediment Profiles as an Index of Historical Depositional Patterns,  
W85-05865 1811 5B

**DAVID, P.**  
Contribution to the Study of Phosphate Ion Desorption During the Dilution of Urban Sewage Outfalls in the Marine Environment,  
W85-04380 1808 5B

**DAVIDSON, J. M.**  
Moisture Sensor-Controlled Irrigation for Reducing N Leaching in Bermudagrass Turf,  
W85-06187 1812 5G

**DAVIDSON, M. R.**  
Green-Ampt Model of Infiltration in a Cracked Soil,  
W85-03569 1807 2G

**DAVIDSON, S. C.**  
Techniques and Equipment Used in Contaminant Detection at Hoe Creek Underground Coal Gasification Experimental Site,  
W85-03182 1806 7B

**DAVIES, A. G.**  
Influence of Low Concentrations of Cadmium, Copper and Zinc on Phytoplankton of Natural Water Samples,  
W85-02803 1806 5C

**DAVIES, B. E.**  
Silver and Other Metals in Some Aquatic Bryophytes from Streams in the Lead Mining District of Mid-Wales, Great Britain,  
W85-05702 1810 5B

**DAVIES, B. R.**  
Studies on the Zoobenthos of Some Southern Cape Coastal Lakes. Spatial and Temporal Changes in the Benthos of Swartvlei, South Africa, in Relation to Changes in the Submerged Littoral Macrophyte Community,  
W85-04818 1809 2H

**DAVIES, C. J.**  
Practical Steps Leading Toward the Effluent-Free Mill,  
W85-06058 1811 5D

**DAVIES-COLLEY, R. J.**  
Copper and Cadmium Uptake by Estuarine Sedimentary Phases,  
W85-01122 1803 5B

Factors Affecting Clarity of New Zealand Lakes,  
W85-04670 1809 2H

Optical Characterisation of Natural Waters by PAR Measurement Under Changeable Light Conditions,  
W85-06797 1812 2H

Optical Properties and Reflectance Spectra of 3 Shallow Lakes Obtained From a Spectrophotometric Study,  
W85-00808 1802 5A

**DAVIES, F. S.**  
Waterlogging of Containerized Rabbiteye Blueberries in Florida,  
W85-06059 1811 2I

**DAVIES, R. P.**  
Prediction of Bioconcentration in Fish,  
W85-03542 1807 5A

**DAVIES, R. W.**  
Responses of Benthic Macroinvertebrate Species to Manipulation of Intertidal Detritus in Carnation Creek, British Columbia,  
W85-04841 1809 2H

**DAVIES, T. D.**  
Black Acidic Snow in the Remote Scottish Highlands,  
W85-03127 1806 5B

Rainbow SO<sub>2</sub>, Precipitation pH and Airborne SO<sub>2</sub> Over Short Sampling Times Throughout Individual Events,  
W85-04500 1809 5B

**DAVIES, T. R. H.**  
Seepage Characteristics of Coarse Granular Media,  
W85-02557 1805 8B

**DAVIS, C. O.**  
Growth Responses of River and Lake Phytoplankton Populations in Lake Michigan Water,  
W85-02638 1805 2H

**DAVIS, D. W.**  
Hydrologic Engineering Center Planning Models,  
W85-06247 1812 2A

Output Increase from Existing Hydroelectric Plants,  
W85-03058 1806 4A

**DAVIS, E. A.**  
Conversion of Arizona Chaparral to Grass Increases Water Yield and Nitrate Loss,  
W85-03564 1807 3B

**DAVIS, E. M.**  
Characterization of Organic Compounds in Simulated Rainfall Runoffs from Model Coal Piles,  
W85-02200 1805 5B

Coal Ash Basin Effects (Particulates, Metals, Acidic pH) Upon Aquatic Biota: An Eight-Year Evaluation,  
W85-02980 1806 5C

**DAVIS, G. H.**  
Prospect Risk Analysis Applied to Ground-Water Reservoir Evaluation,  
W85-00341 1801 6B

**DAVIS, J.**  
Water Use, Growth and Rubber Yields of Four Guayule Selections as Related to Irrigation Regimes,  
W85-05166 1810 3F

## AUTHOR INDEX

**DAVIS, J. A.**

DAVIS, J. A.  
Complexation of Trace Metals by Adsorbed  
Natural Organic Matter,  
W85-00296 1801 5B

DAVIS, J. L.  
Measurement of Soil Water Content Using a  
Portable TDR Hand Probe,  
W85-02801 1806 2G

Measurement of Soil Water Content Using  
Time-Domain Reflectrometry (TDR): A Field  
Evaluation,  
W85-05180 1810 2G

Reservoir Release Improvement,  
W85-05298 1810 5G

DAVIS, J. O.  
Calibrating Water System Models,  
W85-01904 1804 5F

DAVIS, K. B.  
Confinement and Water Quality-Induced Stress  
in Largemouth Bass,  
W85-04680 1809 5C

DAVIS, K. R.  
Automated Weather Data Collection for Re-  
search on Irrigation Scheduling,  
W85-01181 1803 7B

Evaluation of Cotton Canopy Temperature to  
Detect Crop Water Stress,  
W85-03368 1807 2I

Water Use Efficiency of Narrow Row Cotton,  
W85-05918 1811 3F

DAVIS, L.  
Impact of Recent Court Decisions Concerning  
Water and Interstate Commerce on Water Re-  
sources of the State of New Mexico,  
W85-04192 1808 6E

DAVIS, L. A.  
Unsaturated Soil Hydraulic Properties from Re-  
distribution of Injected Water,  
W85-03386 1807 2G

DAVIS, L. J.  
Gulf Coast Waste Disposal Authority: A Re-  
gional Approach to Water Quality Management,  
W85-01422 1803 5G

DAVIS, M. K.  
Blending Chloraminated and Chlorinated  
Waters,  
W85-05476 1810 5F

DAVIS, N.  
Man-Made Structures on Marine Sediments: Ef-  
fects on Adjacent Benthic Communities,  
W85-01895 1804 6G

DAVIS, R. B.  
Acidification and Changes over Time in the  
Chydorid Cladocera Assemblage of New Eng-  
land Lakes,  
W85-04203 1808 5C

Errors in pH Measurement with Colorimetric  
Indicators in Low Alkalinity Waters,  
W85-00992 1802 5A

Methods of pH Calibration of Sedimentary  
Diatom Remains for Reconstructing History of  
pH in Lakes,  
W85-04725 1809 5C

DAVIS, R. W.  
Fast-Track Design, Construction, and Start-Up of a  
Cheese Manufacture Wastewater Pretreat-  
ment Plant,  
W85-05569 1810 5D

DAVIS, S. R.  
Case Histories of Scour Problems at Bridges,  
W85-06107 1811 8A

DAVIS, W.  
Effects of Carcinogens, Mutagens, and Terato-  
gens on Nonhuman Species (Aquatic Animals),  
W85-05128 1810 5C

DAVIS, W. E.  
Preparing the Data Base for a Water Network  
Analysis,  
W85-00740 1802 5F

DAVISON, A.  
Evaluation of Tracer Dilution Techniques for  
Gauging of Rivers in Flood,  
W85-03085 1806 2E

DAVISON, C. C.  
Monitoring Hydrogeological Conditions in  
Fractured Rock at the Site of Canada's Under-  
ground Research Laboratory,  
W85-03180 1806 8E

DAVISON, W.  
Algal Control of Lake Geochemistry; Redox  
Cycles in Rostherne Mere, U.K.,  
W85-04982 1810 2H

Contemporary Lake Transport Processes Deter-  
mined from Sedimentary Records of Copper  
Mining Activity,  
W85-06150 1811 2J

Dynamics of Iron and Manganese in a Seasonal-  
ly Anoxic Lake; Direct Measurement of Fluxes  
Using Sediment Traps,  
W85-01597 1803 2H

Manganese Chemistry in Rivers and Streams,  
W85-03213 1806 2K

Mossbauer Spectroscopic and Chemical Studies  
of Particulate Iron Material from a Seasonally  
Anoxic Lake,  
W85-01096 1802 2H

Oxidation Products of Mn(II) in Lake Waters,  
W85-01107 1802 2H

Transport of Iron and Manganese in Relation to  
the Shapes of Their Concentration-Depth Pro-  
files,  
W85-02090 1804 2K

DAVOREN, W. T.  
Past and Pending Decisions Controlling San  
Francisco Bay and Delta,  
W85-00577 1802 6E

DAVYDOVA, I. K.  
Chlorophyll a in Water of Lake Baikal (Khloro-  
fill a v Vode oz.Baikala),  
W85-06483 1812 5B

DAVYDOVA, T. M.  
Development of a Manufacturing Method for  
Precast Elements of Reinforced-Concrete Pipes  
of the Zagorsk Pumped-Storage Station using  
Electric Heating of the Concrete Mix,  
W85-00440 1801 8D

DAWE, E. G.  
Aspects of the Ecology of the Fishes of Holym-  
ood Pond: A Coastal Lake with Occasional  
Access to the Sea Located in St. Mary's Bay,  
Newfoundland,  
W85-02563 1805 2H

DAWES, N. J.  
Developments in Materials and Design Tech-  
niques for Sewerage Systems,  
W85-04517 1809 8A

DAWKINS, W. P.  
User's Guide: Computer Program for Design or  
Investigation of Orthogonal Culverts (CORT-  
CUL),  
W85-06985 1812 8A

DAWON, F. H.  
Submerged Macrophytes and the Hydraulic  
Roughness of a Lowland Chalkstream,  
W85-05675 1810 2I

DAWSON, M. A.  
Effects of Long-Term Mercury Exposure on  
Hematology of Striped Bass, Morone saxatilis,  
W85-00688 1802 5C

DAWSON, M. W.  
Effect of Baquacil on Pathogenic Free-Living  
Amoebae (PFLA). 3. Increased Baquacil Con-  
centration and Exposure Time in the Presence of  
Bacteria,  
W85-02506 1805 5F

DAY, A. D.  
Bermudagrass Grown with Municipal  
Wastewater,  
W85-00680 1802 3C

Municipal Wastewater Increases Crop Yields,  
W85-05059 1810 3C

Yield and Quality of Cotton Grown with  
Wastewater,  
W85-01869 1804 5D

DAY, D. G.  
Drainage Density Variability and Drainage  
Basin Outputs,  
W85-00183 1801 2A

DAY, F. P. JR.  
Algal Dynamics and Nitrogen and Phosphorus  
Cycling in a Cypress Stand in the Seasonally  
Flooded Great Dismal Swamp,  
W85-00983 1802 2L

DAY, G. N.  
Extended Streamflow Forecasting Using  
NWRSRFS,  
W85-06029 1811 2E

DAY, J. W. JR.  
Mississippi Deltaic Wetland Survival: Sedimen-  
tation Versus Coastal Submergence,  
W85-00221 1801 2L

DAY, K. E.  
Dissipation of Permethrin in Limnocorals,  
W85-04838 1809 5B

DAY, M. J.  
Distribution of Bacterial Plasmids in Clean and  
Polluted Sites in a South Wales River,  
W85-00094 1801 5C

Note on a Membrane Filtration Method for the  
Concentration and Enumeration of Bacterio-  
phages from Water,  
W85-06180 1812 5A

Survey of Sodium Dodecyl Sulphate (SDS) Re-  
sistance and Alkylsulphatase Production in Bacte-  
ria from Clean and Polluted River Sites,  
W85-05848 1811 5C

DAYAL, R.  
Behavior of Iron, Manganese and Silicon in the  
Peconic River Estuary, New York,  
W85-00663 1802 2L

DAYE, P. G.  
Fertilization Success and Sperm Motility of At-  
lantic Salmon (*Salmo salar* L.) in Acidified  
Water,  
W85-05712 1810 5C

DAYTON, P. K.  
Man-Made Structures on Marine Sediments: Ef-  
fects on Adjacent Benthic Communities,  
W85-01895 1804 6G

DE, A. K.  
Studies of Toxic Effects of Hg(II) on *Pistia*  
stratiotes,  
W85-06372 1812 5C

DE AMAZAGA, E.  
Primary Productivity and Precipitation at Castle  
Lake and Lake Tahoe during Twenty-Four  
Years, 1959-1982,  
W85-02650 1805 2H

AUTHOR INDEX

DE POMAR, H. B.

**DE ARAMBARRI, P.**  
Acid Mine-Water and Agricultural Pollution in a River Skirting the Donana National Park, (Guadiana River, South West Spain),  
W85-04293 1808 5B

**DE BACKER, L. W.**  
Statistical Relationship Between Apparent Dielectric Constant and Water Content in Porous Media,  
W85-015184 1810 2G

**DE BAERE, D.**  
'Het Goorken' and 'de Lokkerse Dammen' (Arendonk, Belgium): I. Introduction and Fytosociological Survey (*Het Goorken en de Lokkerse Dammen* (Arendonk, Belgie); I. Inleiding en Fytosociologische Schets),  
W85-05072 1810 2L

**DE BILLY, A.**  
Classification of Daily, Monthly and Seasonal Rainfall over France (*Typologie des Precipitations Quotidiennes, Mensuelles et Saisonnieres sur La France*),  
W85-00393 1801 2B

**DE BOER, T.**  
Size Classes of 'Dissolved' Nutrients in Shallow, Alkaline, Humic and Eutrophic Tjeukemeer, The Netherlands, as Fractionated by Ultrafiltration,  
W85-04550 1809 2K

**DE BONT, A. F.**  
Effects of Heating on Growth and Condition of Pikeperch (*Lucioperca lucioperca*) in Lowland Ponds Created by Sand Extraction,  
W85-06788 1812 5C

**DE BRUIN, M.**  
Arsenic in the Dunlin (*Calidris alpina*) from the Dutch Waddenze, W85-07148 1812 5B

**DE CASSERES, K. E.**  
Determination of COD by a Mercury-Free Open-Tube Method,  
W85-04467 1809 5A

**DE CASTRO, A. C.**  
Cholinesterase Activities in Developing Amphibian Embryos Following Exposure to the Insecticides Dieldrin and Malathion,  
W85-05106 1810 5C

**DE COSTA, J.**  
Effect of Phosphorus and Nitrogen Addition on the Algal Biomass and Species Composition of an Acidic Lake,  
W85-00762 1802 5C

**DE DATTA, S. K.**  
In Situ Water Transmission Characteristics of a Tropical Soil under Rice-Based Cropping Systems,  
W85-06685 1812 2G

**DE DECKKER, P.**  
Australian Salt Lakes: Their History, Chemistry, and Biota - A Review,  
W85-05759 1810 2H

Chemical and Biological Features of Tasmanian Salt Lakes,  
W85-00791 1802 2H

**DE FIGUEIREDO, R. F.**  
Rainfall and Overland Flow Performance,  
W85-00721 1802 5D

**DE GREEF, E.**  
Consumer Panels Monitor Taste of Water in Rotterdam,  
W85-00708 1802 5F

Mutagenic Activity Associated with By-Products of Drinking Water Disinfection by Chlorine, Chlorine Dioxide, Ozone and UV-Irradiation,  
W85-01216 1803 5C

Presence, Introduction and Removal of Mutagenic Activity During the Preparation of Drinking Water in the Netherlands,  
W85-01217 1803 5F

**DE GROOT, A. J.**  
Standardization of Methods of Analysis for Heavy Metals in Sediments,  
W85-02104 1804 5A

**DE HAAN, H.**  
Availability of Dissolved Iron from Tjeukemeer, The Netherlands, For Iron-Limited Growing Scenedesmus quadricauda,  
W85-04978 1810 2H

**DE HAAN, T.J.**  
Shore Protection - A Tension Field Between Two Types of Conservation,  
W85-00562 1802 8A

**DE HANN, H.**  
Size Classes of 'Dissolved' Nutrients in Shallow, Alkaline, Humic and Eutrophic Tjeukemeer, The Netherlands, as Fractionated by Ultrafiltration,  
W85-04550 1809 2K

**DE JONG, E.**  
Evaluation of the Erosion Index for the Prairies,  
W85-06153 1811 2J

**DE JONG, I. G.**  
Thorium 230 Determination in Polluted Lake Water - A Study of Interferences,  
W85-02927 1806 5A

**DE JONG, R.**  
Comparison of Modelled Soil Water Reserves on Canadian Prairie Soils with Water-Holding Capacities of 280 and 250 mm,  
W85-06152 1811 2G

Diffusion-Based Soil Water Simulation for Native Grassland,  
W85-03482 1807 2G

Quantitative Structure-Activity Relationships and Toxicity Studies of Mixtures of Chemicals with Anaesthetic Potency: Acute Lethal and Sublethal Toxicity to *Daphnia magna*,  
W85-00882 1802 5C

**DE JONGHE, W. R. A.**  
Determination of Ionic Alkyllead Compounds in Water by Gas Chromatography/Atomic Absorption Spectrometry,  
W85-03732 1807 5A

**DE KANEL, J.**  
Screening for Organic Contamination of Groundwater: Ethylene Dibromide in Georgia Irrigation Wells,  
W85-03669 1807 5A

**DE KOSINSKY, V.**  
Complicated Belgian Sewerage System,  
W85-06811 1812 4A

**DE LA CLERGERIE, PH.**  
Comparison of Water Mains Cleaning Techniques - The Experiment of Begles (Comparaison des Techniques de Curage des Conduites d'Eau Potable - L'Experience de Begles),  
W85-01999 1804 8A

**DE LACERDA, L. D.**  
Mineral Distribution and Ecological Role of a Recently Formed Halophyte Community in the Guanabara Bay Rio De Janeiro,  
W85-04851 1809 5C

Size and Metal Concentration in the Mangrove Mussel *Mytilus guyanensis* (*Mollusca: Bivalva*) from Baia de Sepetiba, Brazil,  
W85-02718 1806 5A

**DE LLAMAS, M. C.**  
Cholinesterase Activities in Developing Amphibian Embryos Following Exposure to the Insecticides Dieldrin and Malathion,  
W85-05106 1810 5C

**DE LOS REYES, M.**  
Relationships between Physiological Stress and Trace Toxic Substances in the Bay Mussel, *Mytilus edulis*, from San Francisco Bay, California,  
W85-01350 1803 5C

**DE LYON, M. J. H.**  
Field Studies on the Breakdown of *Nuphar lutea* (L.) Sm. (Nymphaeaceae), and a Comparison of Three Mathematical Models for Organic Weight Loss,  
W85-05606 1810 2H

**DE MALACH, Y.**  
Irrigation with Brackish Water Under Desert Conditions; I. Problems and Solutions in Production of Onions (*Allium cepa* L.),  
W85-06282 1812 3C

**DE MARSILY, G.**  
From Infiltration to Recharge: Use of a Parametric Transfer Function,  
W85-03754 1807 2A

**DE MARTINO, G.**  
Effects of Viscosity and Surface Tension on Slot Weirs Flow,  
W85-07029 1812 8B

**DE MENEZES SANTOS, U.**  
Chemical Limnology of Lake Arroz (Careiro Island), Resulting From Water Level Fluctuations in the Central Amazon River (Limnologia Quimica do Lago do Arroz (Ilha do Careiro), Suas Flutuacoes em Funcao do Meio Hidrico do Rio Amazonas),  
W85-02815 1806 2H

**DE MOWBRAY, T.**  
Reactivation Surfaces in Subtidal Channel Deposits, Oosterschelde, Southwest Netherlands,  
W85-02836 1806 2J

**DE NAZARE GOES RIBEIRO, M.**  
Chemical Limnology of Lake Arroz (Careiro Island), Resulting From Water Level Fluctuations in the Central Amazon River (Limnologia Quimica do Lago do Arroz (Ilha do Careiro), Suas Flutuacoes em Funcao do Meio Hidrico do Rio Amazonas),  
W85-02815 1806 2H

**DE NAZARE GOLS RIBEIRO, M.**  
Evapotranspiration of the Forest in the Amazon Region (Evapotranspiracao de Florestas da Regiao Amazonica),  
W85-06450 1812 2D

**DE OLIVEIRA MARQUES FILKO, A.**  
Evapotranspiration of the Forest in the Amazon Region (Evapotranspiracao de Florestas da Regiao Amazonica),  
W85-06450 1812 2D

**DE PAOLI, B.**  
Overlapping Piles Form Cutoff Wall at Thai Dam,  
W85-01543 1803 8A

**DE PENA, R. G.**  
Analysis of Precipitation Collected on a Sequential Basis,  
W85-04505 1809 5B

Wet Deposition Monitoring - Effect of Sampling Period,  
W85-05773 1810 5A

**DE POMAR, H. B.**  
Limnological Studies in a Cross-Section of the Middle Reach of Parana River, V: Textural Fe-

## AUTHOR INDEX

**DE POMAR, H. B.**

tures of Bed Sediments (Estudios Limnologicos en una Seccion Transversal del Tramo Medio del Rio Parana, V: Caracteres Texturales de los Sedimentos de Fondo),  
W85-05176 1810 2J

**DE QUILLEFELDT, C.**  
Growth of Juvenile Mercenaria mercenaria and the Effect of Resuspended Bottom Sediments,  
W85-04085 1808 5C

**DE, R.**  
Modification of Irrigation Requirement of Wheat Through Mulching and Foliar Application of Transpiration Suppressants,  
W85-05923 1811 3F

**DE ROOL, N. M.**  
Modelling Eutrophication in Shallow Dutch Lakes,  
W85-04551 1809 5C

**DE ROOY, N. M.**  
Modelling the Eutrophication Process of Lake IJssel,  
W85-00578 1802 5C

**DE SILVA, K. H. G. M.**  
Ecological Study of the Meso and Macro Fauna of the Littoral Region of Lake Kandy in Sri Lanka,  
W85-04057 1808 2H

**DE SILVA, P. K.**  
Ecological Study of the Meso and Macro Fauna of the Littoral Region of Lake Kandy in Sri Lanka,  
W85-04057 1808 2H

**DE SMET, S. J. M.**  
Effects of Phosphorus and Nitrogen Enrichment on the Yield of Some Strains of Stigeoclonium, Kutz. (Chlorophyceae),  
W85-04898 1809 5A

**DE VOOGT, P.**  
Lead and Cadmium in Waders from the Dutch Wadden Sea,  
W85-06170 1811 5C

**DE VRIEND, H. J.**  
Bed Deformation in Curved Alluvial Channels,  
W85-07033 1812 2J

**DE VRIES, D.**  
Macrophytes in the Loosdrecht Lakes: A Story of Their Decline in the Course of Eutrophication,  
W85-04549 1809 5C

**DE VRIES, P. J. R.**  
Effects of Phosphorus and Nitrogen Enrichment on the Yield of Some Strains of Stigeoclonium, Kutz. (Chlorophyceae),  
W85-04898 1809 5A

**DE WALLE, D. R.**  
Causes of Acidification of Four Streams on Laurel Hill in Southwestern Pennsylvania,  
W85-03861 1808 5B

Laboratory Investigation of Leachate Chemistry from Six Appalachian Forest Floor Types Subjected to Simulated Acid Rain,  
W85-06721 1812 2K

**DE WULF, E.**  
Polycyclic Aromatic Hydrocarbons in Rainwater,  
W85-00741 1802 5B

**DEACON, J.**  
Behaviour of Turbine, Vortex and Electromagnetic Flowmeters,  
W85-00198 1801 7B

**DEAKYNE, C. W.**  
Pilot Plant Demonstration of Biological Phosphorus Removal,  
W85-01657 1804 5D

**DEAN, J. D.**  
Development and Calibration of the Integrated Lake-Watershed Acidification Study Model,  
W85-05321 1810 2K

**DEAN, J. R.**  
Distribution and Concentrations of Naturally-Occurring Radionuclides in Sediments in a Uranium Mining Area of Northern Saskatchewan, Canada,  
W85-02083 1804 5B

**DEAN, J. W.**  
Antimony and Thallium Toxicity to Embryos and Larvae of Fathead Minnows (*Pimephales promelas*),  
W85-00134 1801 5C

**DEAN, R. G.**  
Longshore Sand Transport Study at Channel Islands Harbor, California,  
W85-06918 1812 2J

Suspended Sediment Transport and Beach Profile Evolution,  
W85-01503 1803 2J

**DEAN, W. E.**  
Freshwater Oncolites Created by Industrial Pollution, Onondaga lake, New York,  
W85-03217 1806 5C

**DEANO, P. M.**  
Synergistic Effects of Acidity and Aluminum on Fish (Golden Shiners) in Louisiana,  
W85-06599 1812 5C

**DEARING, J. A.**  
Magnetic Susceptibility of Sedimenting Material Trapped in Lough Neagh, Northern Ireland, and Its Erosional Significance,  
W85-01595 1803 2J

Sediment Supply and Accumulation in a Small Moroccan Lake: An Historical Perspective,  
W85-00792 1802 2J

**DEB, A. K.**  
Calculating Effectiveness of Water Conservation Measures,  
W85-06021 1811 6F

Estimation of Costs for Small Water Systems,  
W85-06950 1812 6C

How Much Water Can You Save With Conservation Measures,  
W85-05483 1810 3D

**DEBANO, L. F.**  
Gully Rehabilitation - A Three-Stage Process in a Sodic Soil,  
W85-03967 1808 4D

**DEBECKER, E.**  
Annual Cycle of Gross Primary Production and Respiration in the Viroin River (Belgium),  
W85-00413 1801 2H

**DEBELL, D. S.**  
Growth and Nutrient Status of Loblolly Pine Seedlings in Relation to Flooding and Phosphorus,  
W85-03968 1808 2I

**DEBEN, W. A.**  
Toxicity of Sewage Sludge to *Rhepoxynius abronius*, a Marine Benthic Amphipod,  
W85-02203 1805 5C

**DEBERRY, D. W.**  
Investigation of Photocatalytic Oxidation for Wastewater Cleanup and Reuse,  
W85-01813 1804 5D

**DEBOEVOISE, N. T.**  
Recent Observations and New Developments in the Calibration of Open Channel Wastewater Monitors,  
W85-03871 1808 7B

**DEBOER, D. W.**  
Drop Size Distributions for a Low Pressure Spray Type Agricultural Sprinkler,  
W85-06096 1811 3F

**DEBUSK, T. A.**  
Effect of Nitrogen and Fiber Content on the Decomposition of the Waterhyacinth (*Eichhornia crassipes* (Mart.) Solms),  
W85-03696 1807 2H

**DEBUSK, W. F.**  
Growth Characteristics of Aquatic Macrophytes Cultured in Nutrient-Enriched Water: II. Azolla, Duckweed, and *Salvinia*,  
W85-07144 1812 5D

**DECKER, C. J.**  
Effect of Crude Oil on the Colonization of Meiofauna into Salt Marsh Sediments,  
W85-03505 1807 5C

**DECLERCQ, M.**  
Statistical Relationship Between Apparent Dielectric Constant and Water Content in Porous Media,  
W85-05184 1810 2G

**DECROOK, K. J.**  
Systems for Rainfall and Runoff Use, Tucson, Arizona,  
W85-04995 1810 3B

**DECOSTA, J.**  
Effect of Acidification in Enclosures on the Biomass and Population Size Structure of *Bosmina longirostris*,  
W85-06388 1812 5C

Effect of Phosphorus Additions in Enclosures on the Phytoplankton and Zooplankton of an Acid Lake,  
W85-01454 1803 5C

Effects of Acidification and Phosphorus Addition on Phytoplankton Biomass and Productivity in a Circum-Neutral Mesotrophic Lake Receiving Acid Precipitation,  
W85-03123 1806 5C

**DECOURCELLE, P.**  
Nice on the French Riviera - the Birthplace of Drinking Water Treatment with Ozone (Nice, sur la Riviera Francaise - Berceau du Traitement de l'Eau par l'Ozone),  
W85-01988 1804 5F

**DEDRICK, A. R.**  
Double-Bubblers Coupled with Pressure Transducers for Water Level Sensing,  
W85-03385 1807 7B

Multipurpose Head Detection and Monitoring Unit,  
W85-06094 1811 7B

**DEEGAN, L. A.**  
Natural Factors and Human Modifications Contributing to Marsh Loss in Louisiana's Mississippi River Deltaic Plain,  
W85-04603 1809 2L

**DEELEY, G. M.**  
Biodegradation of (14C)Phenol in Secondary Sewage and Landfill Leachate Measured by Double-Vial Radiorespirometry,  
W85-06145 1811 5B

**DEENY, K.**  
Activated Sludge Process: Fundamentals of Operation,  
W85-06932 1812 5D

**DEFFENBACH, J. R.**  
Leavenworth, Washington Case: Environmental Concerns with a Water Treatment Plant Failure,  
W85-02723 1806 5B

**DEFREITAS, A. S. W.**  
Long-Term Effects of Arsenic Accumulation in Rainbow Trout, *Salmo gairdneri*,  
W85-00884 1802 5C

## AUTHOR INDEX

DENISOVA, A. I.

**DEGARIE, C. J.**  
Anaerobic Pretreatment Facility also Provides Sludge Disposal Capability and Source of Renewable Energy for Food Processor, W85-05566 1810 5D

**DEGENS, E.**  
Monitoring Carbon in World Rivers, W85-03654 1807 5B

**DEGOBBIS, D.**  
Optimal Manual Procedure for Ammonia Analysis in Natural Waters by the Indophenol Blue Method, W85-02433 1805 5A

**DEGOOUTTE, G.**  
Methodology for Producing an Inventory of Sites for Small Hydroelectric Schemes. Haute-Savoie, a Case Study (Methodologie d'un Inventaire de Sites de Microcentrales Cas de la Haute-Savoie), W85-03587 1807 6A

**DEHKORDI, F.**  
Variability Analysis During Biological Treatability of Complex Industrial Wastewater for Design, W85-05292 1810 5D

**DEININGER, R. A.**  
Water Quality Indices - A Comparison of Experts' Opinions, W85-01425 1803 5A

**DEINTER, R. A.**  
Irrigated Agricultural Decision Strategies for Variable Weather Conditions, W85-06340 1812 6A

**DEIS, D. A.**  
Chemical Study of the Interstitial Water Dissolved Organic Matter and Gases in Lake Erie, Cleveland Harbor, and Hamilton Harbour Bottom Sediments-Composition and Fluxes to Overlying Waters, W85-01814 1804 5B

**DEJONG, R.**  
Estimated Soil Water Reserves Applicable to a Wheat-Fallow Rotation for Generalized Soil Areas Mapped in Southern Saskatchewan, W85-04355 1808 2G

**DEKKER, A.**  
Computed and Measured Leaching of the Insecticide Methomyl from Greenhouse Soils into Water Courses, W85-02924 1806 5B

Leaching of Oxidation Products of Aldicarb from Greenhouse Soils to Water Courses, W85-02208 1805 5B

**DEKKER, L. W.**  
Nitrogen Leaching During Sprinkler Irrigation of a Dutch Clay Soil, W85-03480 1807 5G

**DEKKERS, E. M. J.**  
Nitrogen Cycle of Lake Vechten (The Netherlands); Role of Sedimentation, W85-00109 1801 2H

**DEL BORGHI, M.**  
Influence of Process Variables on the Modelling and Design of a Rotating Biological Surface, W85-07116 1812 5D

**DEL MONTE, M.**  
pH of the Atmospheric Precipitation in Venice, Related to Both the Dynamics of Precipitation Events and the Weathering of Monuments, W85-04362 1808 5B

**DELANY, J. M.**  
Groundwater Contamination From an Inactive Uranium Mill Tailings Pile: 1. Application of a Chemical Mixing Model, W85-03575 1807 5B

**DELAUNE, R. D.**  
Carbon Cycle and the Rate of Vertical Accumulation of Peat in the Mississippi River Deltaic Plain, W85-03487 1807 2H

Fate of Riverine Nitrate Entering an Estuary: I. Denitrification and Nitrogen Burial, W85-06412 1812 5B

**DELEON, I. R.**  
Volatile Organic Pollutants in Biota and Sediments of Lake Pontchartrain, W85-04476 1809 5A

**DELFINO, J. J.**  
Determination of Aldicarb and its Derivatives in Groundwaters by High-Performance Liquid Chromatography with UV Detection, W85-01748 1804 5A

**DELIGNY, W.**  
Ecological Monitoring of Aqueous Effluents from Petroleum Refineries, W85-05582 1810 5A

**DELISLE, C. E.**  
Effects of an in situ Artificial Acidification on the Lacustrine Phytoplankton and Zooplankton (Effets d'une Acidification Artificielle in situ sur le Phytoplancton et le Zooplancton Lacustre), W85-02636 1805 5C

**DELISTRATY, D. A.**  
Effects of the Herbicide Atrazine on Adenine Nucleotide Levels in *Zostera marina* L. (Eelgrass), W85-01888 1804 5C

**DELL'OSO, L.**  
Numerical Prediction of the Heavy Rainfall Vortex over Eastern Asia Monsoon Region, W85-04022 1808 2B

**DELLEUR, J. W.**  
Effects of Urbanization on Frequencies of Overflows and Pollutant Loadings from Storm Sewer Overflows: A Derived Distribution Approach, W85-02152 1804 5B

Problem Oriented Evaluation of Institutional Decision Making and Improvement of Models Used in Regional Urban Runoff Management: Application to Indiana, W85-06306 1812 6A

**DELMAS, P.**  
Impact of a Massive Domestic Pollution on the Biology and Morphometry of the Echinoid Paracentrotus lividus: Preliminary Data (Impact de la pollution domestique sur la biologie et la morphometrie de l'Echinide Paracentrotus lividus (Lamarck). Donnees preliminaires), W85-05723 1810 5C

**DELMAS, R. J.**  
Snow Chemistry on James Ross Island (Antarctic Peninsula), W85-00519 1802 2C

**DELMER, A.**  
Variational-Lagrangian Analysis of Aquifers with Application to Artesian Wells, W85-05503 1810 2F

**DELNORE, V. E.**  
Airborne Microwave Measurements of the Southern Greenland Ice Sheet, W85-04962 1809 2C

**DELPHIA, J. M.**  
Assessment of Maternal Toxicity, Embryotoxicity and Teratogenic Potential of Sodium Chlorite in Sprague-Dawley Rats, W85-01201 1803 5F

**DELVENTHAL, H.**  
Water Quality and Stocking Density as Stressors of Channel Catfish (*Ictalurus punctatus* Raf.), W85-00234 1801 3F

**DELYANNIS, A. A.**  
Solar Desalination, W85-06690 1812 3A

**DELYANNIS, E.**  
Solar Desalination, W85-06690 1812 3A

**DEMAS, G.**  
Erosion and Sedimentation Chronology of Three Watersheds in Maryland, W85-01835 1804 2J

**DEMENET, P. F.**  
Study of the Behavior of Boats and Units under Cross-Current and Wind Action at the Entrance to the Fos-Rhone Canal Link (Etude de l'évolution des bateaux et convois soumis aux courants traversiers et au vent, à l'entrée du canal de liaison Fos-Rhone), W85-00378 1801 3B

**DEMENTIEVA, O. V.**  
Growth of Ice Sheets, W85-00686 1802 2C

**DEMTRACOPOULOS, A. C.**  
Modeling for Design of Landfill Bottom Liners, W85-03803 1808 5G

Moisture Transport in a Solid Waste Column, W85-02276 1805 5B

**DEMIRJIAN, Y. A.**  
Land Treatment of Municipal Wastewater: Selected Examples in the United States, W85-05324 1810 5D

Wastewater Recycling in Muskegon County, W85-03796 1808 5D

**DEMOND, A. H.**  
Leaching of Tetrachloroethylene from Vinyl-Lined Pipe, W85-04963 1809 5F

**DEMPSEY, B. A.**  
Polyaluminum Chloride and Alum Coagulation of Clay-Fulvic Acid Suspensions, W85-06588 1812 5F

**DENAHAN, B. J.**  
Electrical Resistivity Investigation of Potential Cavities Underlying a Proposed Ash Disposal Area, W85-02861 1806 5G

**DENDY, F. E.**  
Sediment Trap Efficiency of a Small Reservoir, W85-03352 1807 2J

**DENG, B.**  
Small Hydro in China: Progress and Prospects, W85-04947 1809 6B

**DENISEGER, J.**  
Effects of Heavy Metal Contamination of the Aquatic Biota of Buttle Lake and the Campbell River Drainage (Canada), W85-07160 1812 5C

Lake Algal Populations and Physico-Chemical Changes After 14 Years Input of Metallic Mining Wastes, W85-06221 1812 5C

Periphery Community Changes Along a Heavy Metals Gradient in a Long Narrow Lake, W85-04860 1809 5C

**DENISON, M. S.**  
Short-Term Interactions Between DDT and Endrin Accumulation and Elimination in Mosquitofish (*Gambusia affinis*), W85-07157 1812 5C

**DENISOVA, A. I.**  
Main Trends in the Formation of the Hydrochemical Regime of Dnepr Reservoirs, W85-04152 1808 2H

## AUTHOR INDEX

DENKER, J.

DENKER, J.  
Pentachlorophenol and Tetrachlorophenols in  
Wadden Sediment and Clams *Mya arenaria* of  
the Jadebusen After a 14-Year Period of  
Wastewater Discharge Containing Pentachloro-  
phenol,  
W85-05028 1810 5C

DENMAN, K. L.  
Mixing and the Dynamics of the Deep Chloro-  
phyll Maximum in Lake Tahoe,  
W85-02223 1805 2H

DENMEAD, O. T.  
Plant Physiological Methods for Studying Evi-  
apotranspiration: Problems of Telling the Forest  
from the Trees,  
W85-06674 1812 2D

DENNE, J. E.  
Ammonium Ion, Humic Materials, and Trihalo-  
methane Potential in Northeastern Kansas  
Ground Waters,  
W85-03155 1806 2K

DENNER, W. W.  
Elastic Constants of Artificial and Natural Ice  
Samples by Brillouin Spectroscopy,  
W85-03346 1807 2C

DENNELL, M. D.  
Comparison of Rainfall Regimes at Six Sites in  
Northern Syria,  
W85-06194 1812 2B

DENNIS, W. H.  
Treatment of Pesticide-Laden Wastewater by  
Recirculation Through Activated Carbon,  
W85-06781 1812 5D

DENNY, P.  
Flux of Lead in Submerged Plants and its Re-  
levance to a Freshwater System,  
W85-05745 1810 5B

Particulates and the Cycling of Lead in Ulls-  
water, Cumbria,  
W85-06417 1812 5B

Permanent Swamp Vegetation of the Upper  
Nile,  
W85-01031 1802 2L

Transfer of Lead by Freshwater Snails in Ulls-  
water, Cumbria,  
W85-02747 1806 5B

DENONCOURT, R. F.  
Distribution of Fishes in the Brodhead Creek  
Drainage Monroe County, Pennsylvania,  
W85-03067 1806 2H

DEPINTO, J. V.  
Algal-Availability of Particulate Phosphorus  
from Diffuse and Point Sources in the Lower  
Great Lakes Basin,  
W85-02061 1804 2K

DEPOORTER, G. L.  
Erosion of Earth Covers Used in Shallow Land  
Burial at Los Alamos, New Mexico,  
W85-01282 1803 5G

DER MEGREDITCHIAN, G.  
Classification of Daily, Monthly and Seasonal  
Rainfall over France (Typologie des Precipita-  
tions Quotidiennes, Mensuelles et Saisonnieres  
sur La France),  
W85-0093 1801 2B

DERBAN, L. K. A.  
Health Impact of the Kpong Dam in Ghana,  
W85-03323 1807 6G

DERLETH, L.  
Deciphering the Code: How Federal Effluent  
Guidelines Affect the Pulp and Paper Industry,  
W85-01500 1803 6E

DERMISSIS, V.  
Interfacial Resistance in Stratified Flows,  
W85-01502 1803 8B

DERMOITT, R. M.  
Changes in Populations and Drift of Stream  
Invertebrates Following Lampricide Treatment,  
W85-03605 1807 5C

DERONDE, L.  
Some Limnological Characteristics of a Temper-  
ate Forest Pond,  
W85-05651 1810 2H

DEROCKER, A.  
Ecological Monitoring of Aqueous Effluents  
from Petroleum Refineries,  
W85-05582 1810 5A

DEROUHLAC, D.  
Oxidation of a Corn-Milling Wastewater with  
Hydrogen Peroxide,  
W85-05563 1810 5D

DERR, J.  
City of Milwaukee v. Illinois (Illinois II),  
W85-02179 1805 6E

DESBORDES, M.  
Area Reduction Factors on Short Time and  
Space Intervals,  
W85-01690 1804 2B

DESCY, J. P.  
Impact of the Tihange Nuclear Power Plant on the  
Periphyton and the Phytoplankton of the  
Meuse River (Belgium),  
W85-04388 1808 5C

DESHMUKH, I. K.  
Common Relationship between Precipitation  
and Grassland Peak Biomass for East and South-  
ern Africa,  
W85-02544 1805 2B

DESHONS, P.  
Use of Krigging to Forecast Fracturation of  
Rocks (Prévision par Krigeage de la Fractura-  
tion des Roches),  
W85-03536 1807 2F

DESHPANDE, S. D.  
Biological Treatability of m-Aminophenol Plant  
Wastewater Containing Structural Isomers of  
Benzene with Different Substituents,  
W85-06220 1812 5D

DESI, I.  
Toxicological Investigation and Evaluation of  
Drinking-Water Pollution Caused by Chemical  
Wastes,  
W85-02696 1806 5F

DEJARDINS, R.  
Utilization of a Microcomputer in the Calcula-  
tion of Calcocarbonic Equilibrium Curves,  
W85-04051 1808 5F

DESLOGES, J. R.  
Process and Discharge Estimation in Ephemeral  
Channels, Canadian Rocky Mountains,  
W85-03196 1806 2E

DESOUGI, L. A.  
Mineral Nutrient Demands of the Water Hyacinth  
(*Eichhornia crassipes* (Mart.) Solms), in the  
White Nile,  
W85-01032 1802 5C

DESPLANQUE, C.  
Observations on the Ecological Importance of  
Salt Marshes in the Cumberland Basin, a Macro-  
tidal Estuary in the Bay of Fundy,  
W85-06855 1812 2L

DESPORTOVIC, J. Z.  
Statistical Methods of Storm Analysis,  
W85-01680 1804 2B

DESSERY, S.  
Changes in the Quality of River Oise Water  
During Retention in the Storage Basin at Mery  
(France) (Evolution de la Qualité de la Rivière  
Oise lors de sa Retention dans le Bassin de  
'Storage' de Mery (France)),  
W85-05635 1810 2H

Evolution of Algal and Detrital Components in  
the Particulate Organic Carbon of Three Rivers  
from the Bassin Parisien (Evolution du Carbone  
Organique Particulaire 'algal' et 'detritique' dans  
trois rivières du Bassin Parisien),  
W85-00630 1802 2H

Primary Production and its Fate in the Storage  
Basin of Mery-sur-Oise,  
W85-05634 1810 2H

DESTASIO, B. T.  
Phytoplankton Standing Stock, Size Distribu-  
tion, Species Composition and Productivity  
Along a Trophic Gradient in Green Bay, Lake  
Michigan,  
W85-02640 1805 2H

DETAR, W. R.  
Irrigation in Humid Areas: Net Benefits,  
W85-01576 1803 2G

DETACHEVA, R. B.  
Characteristics of Autopurification in the Ossam  
River, a Tributary of the Danube (Einige Beson-  
derheiten in der Selbstreinigung des Donauzu-  
flusses Ossam),  
W85-03100 1806 5B

DETHIER, M.  
Physico-Chemical, Bacteriological and Biologi-  
cal Study of the Seymaz (Etude Physico-Chimique,  
Bacteriologique et Biologique de la  
Seymaz),  
W85-01555 1803 5C

DETROY, M. G.  
Hydrology of Area 38, Western Region, Interior  
Coal Province, Iowa and Missouri,  
W85-00597 1802 5B

DEUTSCH, W. J.  
Uranium Mobility in the Natural Environment;  
Evidence from Sedimentary Roll-Front Depos-  
its,  
W85-06777 1812 5B

DEVAI, G.  
Detection of Elementary Sulphur in Freshwater  
Sediments,  
W85-02746 1806 5A

DEVAI, I.  
Detection of Elementary Sulphur in Freshwater  
Sediments,  
W85-02746 1806 5A

Gas Chromatographic Method for the Determi-  
nation of Elemental Sulphur in Sediments,  
W85-02305 1805 5A

DEVAN, S. P.  
Chloride Loading to Lake Ontario From Onon-  
daga Lake, New York,  
W85-06865 1812 5B

Phosphorus Cycling in Ionically Polluted Onon-  
daga Lake, New York,  
W85-05690 1810 5B

DEVAULT, D.  
Contaminant Analysis of Fillets from Great  
Lakes Coho Salmon, 1980,  
W85-01358 1803 5A

DEVDRARIANI, A. S.  
Equation of Sediment Discharge of a Slump  
Turbidity Current in a Deformable Channel,  
W85-05146 1810 2J

## AUTHOR INDEX

DIGERNES, I.

**DEVILLE, J.**  
Nitrogen Leaching from Soils Cropped with Sugarcane under the Humid Tropical Climate of Mauritius, Indian Ocean, W85-01294 1803 5B

**DEVITT, D.**  
Comparison of Methods Used to Estimate Evapotranspiration for Leaching Control, W85-05926 1811 7B

**DEVOL, A. H.**  
Mixing Patterns in Amazon Lakes, W85-01004 1802 2H

Nutrient Addition Experiments in Lago Jacaretinga, Central Amazon, Brazil: 2. The Effect of Humic and Fulvic Acids, W85-01018 1802 2H

**DEVYATKOVA, T. P.**  
Some Results of Calculating the Balance of Mineral Substances of the Kama Reservoirs and its Stretches, W85-04130 1808 2H

**DEWALLE, D. R.**  
Contribution of Precipitation to Quality of Urban Storm Runoff, W85-04992 1810 5B

In-Situ Bioassays of Fish Mortality in Two Pennsylvania Streams Acidified by Atmospheric Deposition, W85-00205 1801 5C

**DEWEY, R. J.**  
Beach Fecal Coliforms, W85-01711 1804 5B

Impact of Proposed Glengowan Dam Flow Augmentation on Thames River Water Quality, W85-04044 1808 6G

**DEXTER, H.**  
Water Quality Forecasting for Real-Time Control of Irrigation Pumping Schedules, W85-01417 1803 3C

**DEVY, B.**  
Evaluating a Model of Snow Cover Area versus Runoff Against a Concurrent Flow Correlation Model in the Western Himalayas, W85-06643 1812 2E

Utilization of Satellite Snow-Cover Observations for Seasonal Streamflow Estimates in the Western Himalayas, W85-01233 1803 7B

**DEYLING, M. A.**  
Testing and Sampling of Deep Brine Aquifers in the Palo Duro Basin, West Texas, W85-03187 1806 2F

**DHAR, H. P.**  
Electrochemical Approach to the Prevention of Biofouling Phenomena, W85-00863 1802 3A

**DHAR, O. N.**  
Most Severe Rainstorm of India - a Brief Appraisal, W85-01139 1803 2B

Rainfall Distribution Over India During the Monsoon Months in the Absence of Depressions and Cyclonic Storms, W85-05081 1810 2B

**DHARMARAJ, K.**  
Nature of Primary Production in a Tropical Backwater of the Southwest Coast of India, W85-04079 1808 2L

**DHILLON, S. S.**  
Short Term Effects of Aldrin and Swascofix CD-38 on the Feeding and Respiratory Behaviors of Clarias batrachus and Cirrhinus mrigala, W85-06269 1812 5C

**DI GIULIO, R. T.**  
Heavy Metals in Aquatic Plants, Clams, and Sediments from the Chesapeake Bay, U.S.A. Implications for Waterfowl, W85-06549 1812 5B

Heavy Metals in Tissues of Waterfowl from the Chesapeake Bay, USA, W85-01448 1803 5C

**DI TORO, D. M.**  
Probability Model of Stream Quality Due to Runoff, W85-00718 1802 5B

**DIAL, N. A.**  
Teratogenic and Lethal Effects of Paraquat on Developing Frog Embryos (*Rana pipiens*), W85-02968 1806 5C

**DIAMADOPoulos, E.**  
Aluminum Hydrolysis Effects on Phosphorus Removal from Wastewaters, W85-03868 1808 5D

Effect of Filter Pore Size on the Evaluation of Aluminum Coagulants to Remove Fulvic Acid from Water, W85-02919 1806 5F

Precipitation of Phosphorus from Wastewater Through pH Variation in the Presence and Absence of Coagulants, W85-02438 1805 5D

**DIAMOND, J.**  
Summary of Ground-Water Pumpage in the Central Valley, California, 1961-77, W85-00591 1802 4B

**DIAMOND, M.**  
Effects of Phosphorus Fertilization on Phytoplankton Biomass and Phosphorus Retention in Subarctic Quebec Lakes, W85-02635 1805 2H

**DIAMOND, S.**  
Use of Models for Water Resources Management, Planning, and Policy, W85-02146 1804 6A

**DIAS, M.**  
Chemical Analysis of Cloud Water Collected over Hawaii, W85-00515 1802 2K

**DAIAZ, A. M.**  
Physical and Hydrologic Environments of the Mulberry Coal Reserves in Eastern Kansas, W85-00595 1802 6G

**DAIAZ, E.**  
Acid Mine-Water and Agricultural Pollution in a River Skirting the Donana National Park, (Guadiamar River, South West Spain), W85-04293 1808 5B

**DAIAZ-GRANADOS, M. A.**  
Physically Based Flood Frequency Distribution, W85-02168 1804 2E

**DAIAZ, H. F.**  
Precipitation Trends and Water Consumption Related to Population in the Southwestern United States, 1930-83, W85-07067 1812 2B

Relative Effects of U.S. Population Shifts (1930-80) on Potential Heating, Cooling and Water Demand, W85-01153 1803 2B

**DICE, J. C.**  
Denver's Seven Decades of Experience with Chloramination, W85-05473 1810 5F

**DICKENS, W. R.**  
Flowcage - Laboratory Tests of a Novel Renewable Energy Device for Flowing Water, W85-01520 1803 8C

**DICKERMAN, D. C.**  
Aquifer Tests in the Stratified Drift, Chipuxet River Basin, Rhode Island, W85-02039 1804 2F

Modification of the Finite-Difference Model for Simulation of Two-Dimensional Ground-Water Flow to Include Surface-Ground Water Relationships, W85-00845 1802 2F

**DICKERSON, J. D.**  
Windbreak Effects on Soil Water and Wheat Yield, W85-03365 1807 3F

**DICKEY, E. C.**  
Tillage Influences on Erosion During Furrow Irrigation, W85-04749 1809 4C

Tillage, Residue and Erosion on Moderately Sloping Soils, W85-03402 1807 2J

**DICKMAN, M.**  
Isotopic Analyses (18O, 13C, 14C) of Two Meromictic Lakes in the Canadian Arctic Archipelago, W85-01329 1803 2H

Seasonal Succession and Microlamina Formation in a Meromictic Lake Displaying Varved Sediments, W85-06699 1812 2J

**DICKS, D. L.**  
Pilot-Plant Studies of Slow-Rate Filtration, W85-04408 1808 5F

**DICKS, S. E.**  
Drought in Southeastern United States, W85-01642 1804 2B

**DICKSON, D. P. E.**  
Mossbauer Spectroscopic and Chemical Studies of Particulate Iron Material from a Seasonally Anoxic Lake, W85-01096 1802 2H

**DIERBERG, F. E.**  
Effect of Nitrogen and Fiber Content on the Decomposition of the Waterhyacinth (*Eichhornia crassipes* (Mart.) Solms), W85-03696 1807 2H

Heavy Metals in the Drinking Water from Cisterns Supplying Single-Family Dwellings, W85-06545 1812 5F

Nitrogen and Phosphorus Removal by Cypress Swamp Sediments, W85-05695 1810 5D

**DIERICKX, P. J.**  
Glutathione S-Transferase in Aquatic Macro-Invertebrates and its Interaction with Different Organic Micropollutants, W85-04359 1808 5C

**DIERSCH, H. J.**  
Finite-Element Analysis of Dispersion-Affected Saltwater Upconing below a Pumping Well, W85-04015 1808 2L

**DIETHELM, W.**  
Repair Works at the Concrete Dam 'Schoni' of the 'Oberalp' Hydroelectric Plant (Reparaturarbeiten an der Staumauer Schoni des Kraftwerkes Oberalp), W85-01261 1803 8F

**DIETRICH, W. E.**  
Bed Load Transport in a River Meander, W85-03161 1806 2J

**DIGERNES, I.**  
Evaluation of Acidification Based on Former Colorimetric Determination of pH: The Effect of Indicators on pH in Poorly Buffered Water, W85-04530 1809 5A

## AUTHOR INDEX

**DILEGO, R. W.**

**DILEGO, R. W.**  
Changes in Bluegill Activity as a Monitor of Acute Benzene Exposure, W85-01088 1802 5A

**DILKS, D. W.**  
Periphytic Oxygen Production in Outdoor Experimental Channels, W85-02432 1805 2I

**DILL, D. C.**  
Triclopyr Triethylamine Salt Toxicity to Life Stages of the Fathead Minnow (*Pimephales promelas Rafinesque*), W85-02417 1805 5C

**DILLARD, L.**  
Hepatic Mixed-Function Oxidases in California Flatfishes Are Increased in Contaminated Environments and by Oil and PCB Ingestion, W85-01894 1804 5A

**DILLION, P. J.**  
Historical Changes in Anthropogenic Lead Fall-out in Southern Ontario, Canada, W85-02063 1804 5B

Whole-Lake Lead Burdens in Sediments of Lakes in Southern Ontario, Canada, W85-02062 1804 5B

**DILLON, C. R.**  
Quiescence, Growth and Senescence of *Egeria densa* in Lake Marion, W85-04858 1809 2H

**DILLON, P. J.**  
Modeling the Reacidification Rates of Neutralized Lakes Near Sudbury, Ontario, W85-05319 1810 2A

Relative Importance of Anthropogenic versus Natural Sources of Acidity in Lakes and Streams of Central Ontario, W85-03602 1807 5B

**DIMENTMAN, C.**  
Distributional Patterns and Habitat Characteristics of Amphipoda (Crustacea) in the Inland Waters of Israel and Sinai, W85-00395 1801 2H

**DIMITRACOPOULOS, C. J.**  
Slow Sand and Direct In-Line Filtration of a Surface Water, W85-04406 1808 5F

**DIMITROVA, M. A.**  
Hydrobiological and Saprobiological Alterations in the Tunja River. I. 1955 - 1967 (Tendentsii v Izmeneniyata na Khidrobiologichnoto i Saprobiologichnoto S'toyanite na Reka Tundzha. I. 1955-1967 g.), W85-03106 1806 5B

**DINAR, A.**  
Reuse of Agricultural Drainage Waters: An Economic Analysis, W85-02978 1806 3C

**DING, J.**  
Plotting Positions for Pearson Type-III Distribution, W85-03079 1806 2E

**DINICOLA, R. S.**  
Causes of Acidification of Four Streams on Laurel Hill in Southwestern Pennsylvania, W85-03861 1808 5B

**DINYA, Z.**  
Detection of Elementary Sulphur in Freshwater Sediments, W85-02746 1806 5A

**DIONIGI, C. P.**  
Effects of Soil Waterlogging on the Energy Status and Distribution of *Salix nigra* and S.

*exigua* (Salicaceae) in the Atchafalaya River Basin of Louisiana, W85-04943 1809 2I

**DIOURI, A.**  
Empirical Contribution to the Study of Swell Propagation in a Breakwater (Contribution Empirique a l'Etude de la Propagation de la Houle a l'interieur des Diques), W85-03589 1807 8B

**DIRICKX, J.**  
Ozonation and Activated Carbon Filtration: a Critical Evaluation, W85-02019 1804 5F

**DISCHEL, R. S.**  
Factors Influencing Impingement of Fish by Lake Ontario Power Plants, W85-04713 1809 8I

**DISKIN, M. H.**  
Application of a Cell Model to the Bellebeek Watershed, W85-06638 1812 2E

**DISRUD, L. A.**  
Interrill Erosion as an Index of Mined Land Soil Erodibility, W85-03370 1807 2J

**DISSANAYAKE, C. B.**  
Distribution of Nitrates in the Potable Waters of Sri Lanka, W85-02015 1804 5B

Geochemistry of Well Water and Cardiovascular Diseases in Sri Lanka, W85-01674 1804 5C

**DITSIOS, M.**  
Relationship Between Surface Loading, Depth and Effluent Suspended Solids at a Rectangular, Horizontal Pilot-Scale Secondary Clarifier, W85-03652 1807 5D

**DITSWORTH, G. R.**  
Toxicity of Sewage Sludge to *Rhepoxynius abronius*, a Marine Benthic Amphipod, W85-02023 1805 5C

**DITTMAR, A.**  
Stimulation of Rational Water Use Measures (Zur Stimulierung von Massnahmen der rationalen Wasserverwendung), W85-03471 1807 3E

**DIX, O. R.**  
Braided-Stream Deposition in the Mpembeni River, Zululand, W85-02017 1801 2J

**DIXON, D. G.**  
Use of Fish Cell Cultures as an Indication of Contaminant Toxicity to Fish, W85-06440 1812 5A

**DIXON, D. R.**  
Embryo Abnormalities in the Periwinkle, *Littorina 'saxatilis'*, as Indicators of Stress in Polluted Marine Environments, W85-04893 1809 5A

**DIXON, M.**  
Effect of Wind on the Transpiration of Young Trees, W85-00626 1802 2D

**DIXON, W. D.**  
Minimum Flow Protection in Riparian States, W85-06028 1811 6E

**DLUBAC, J. J.**  
Hydraulic Model Study of Pump Sump Design, W85-02454 1805 8C

**DMITRIEV, N. V.**  
Grouting Works in the Foundation of the Dam of the Al-Hadithan Hydropower Development on the Euphrates River in Iraq, W85-00507 1801 8A

**DMITRIEVA, N. G.**  
Investigation of the Space-Time Variability of Physical, Chemical, and Biological Indices in Reservoirs for the Purpose of Their Regionalization with Special Reference to the Ivankovo Reservoir, W85-04104 1808 2H

**DMITRUZHIN, A. F.**  
Experience in the Operation of Hydraulic Structures and Equipment of Hydroelectric Stations, W85-04423 1809 8C

**DOAKE, C. S. M.**  
Flow Law for Ice in Polar Ice Sheets, W85-05735 1810 2C

**DOBBERKAU, H. J.**  
Problems in Water Contamination and its Analytical Understanding (Probleme der Wasserkontamination und ihrer analytischen Erfassung), W85-06267 1812 5A

**DOBBS, A. J.**  
Prediction of Bioconcentration in Fish, W85-03542 1807 5A

Toxicity of Eight Water-Soluble Organic Chemicals to *Selenastrum capricornutum*: A Study of Methods of Calculating Toxic Values Using Different Growth Parameters, W85-07159 1812 5A

**DOBBLER, E.**  
Results of the Preliminary Investigations on the Algalcommunities in the Backwater of the Tisza at Alpar, W85-03116 1806 5C

Studies on the Qualitative and Quantitative Composition and the Seasonal Changes of Phytoplankton at Three Sampling Areas of the Dead Tisza at Lakitelek, W85-03117 1806 5C

**DODDRIDGE, P.**  
Alum Sludge: A Sampling Method for the Radioactivity in Waters (Les boues d'alun: une Methode d'echantillonnage des cours d'eau pour l'etude des Radionucleides), W85-04017 1808 5A

**DODGE, R. E.**  
Chronology of Lead Pollution Contained in Banded Coral Skeletons, W85-02472 1805 5B

Reef-Building Coral Skeletons as Chemical Pollution (Phosphorus) Indicators, W85-00200 1801 5A

**DODIN, A.**  
Isolation of Pathogenic Bacteria Present in Water Using Immunoabsorbents (Isolement de Bacteries Pathogenes Contaminant une Eau a l'Aide d'Immunoabsorbants), W85-02441 1805 5A

**DODSON, J. J.**  
Brook Trout (*Salvelinus fontinalis*) Population Structure in Acidified Lac Tantare, Quebec, W85-01489 1803 5C

**DOERFFER, R.**  
Observations of the Suspended Matter Distribution Dynamics in the Elbe Estuary from Time Series Aerial Photographs, W85-06885 1812 2L

**DOERGER, J. U.**  
Influence of the Time of Acidification after Sample Collection on the Preservation of Drinking Water for Lead Determination, W85-07088 1812 5A

**DOERING, E. J.**  
Water-Table Contribution to Alfalfa Evapotranspiration and Yields in Sandy Soils, W85-04727 1809 2D

## AUTHOR INDEX

DORWARD, E. J.

**DOHGANE, Y.**  
Approximate Solution of Fresh Water-Salt Water Interface in Confined Aquifers (in Japanese),  
W85-02252 1805 2F

**DOI, H.**  
Regional Unsteady Fresh Water-Salt Water Interface in Confined Aquifers (in Japanese),  
W85-02256 1805 2F

**DOKHOLYAN, B. K.**  
Effect of Sodium Naphthenate on Survival and Some Physiological-Biochemical Parameters of Some Fishes,  
W85-02280 1805 5C

**DOKHOLYAN, V. K.**  
Influence of Mercury Accumulation on Fish,  
W85-02849 1806 5C

**DOKULIL, M.**  
Assessment of Components Controlling Phytoplankton Photosynthesis and Bacterioplankton Production in a Shallow, Alkaline, Turbid Lake (Neusiedlersee, Austria),  
W85-03125 1806 2H

**DOLAN, T. J.**  
Evapotranspiration of a Florida, U.S.A., Freshwater Wetland,  
W85-03759 1807 2D

**DOLGOPOLOVA, T. L.**  
Creation of Closed Water Management Systems at Industrial Enterprises,  
W85-04141 1808 5D

**DOMBECK, M. P.**  
Method for Measuring Oxygen in Aquatic Microzones,  
W85-04312 1808 2K

**DOMBROVSKY, Y. A.**  
Simulation Modeling as a Means of Studying Large Aquatic Ecosystems,  
W85-02884 1806 2A

**DOMEK, M. J.**  
Evidence for the Role of Copper in the Injury Process of Coliform Bacteria in Drinking Water,  
W85-02594 1805 5F

**DOMENECH, S.**  
Mathematical Model of a Mechanical-Vapor Compression Evaporator. Application to the Production of Freshwater by Seawater Desalination; Part II - Numerical Exploitation,  
W85-00250 1801 3A

**DOMENICO, P. A.**  
Determining Dispersion Coefficients and Sources of Model-Dependent Scaling,  
W85-04274 1808 2F

**DOMERMUTH, R. B.**  
Distribution of Fishes in the Brodhead Creek Drainage Monroe County, Pennsylvania,  
W85-03067 1806 2H

**DOMINGO, A.**  
Limnology of the Lago Grande de Estanya (Huesca) (Limnología del Lago Grande de Estanya (Huesca)),  
W85-05746 1810 2H

**DOMINGUEZ, S. E.**  
Effect of Pentachlorophenol on the Growth and Mortality of Embryonic and Juvenile Steelhead Trout,  
W85-03226 1807 2C

**DOMOKOS, M.**  
Extension of a Streamflow Time Series by Regression (Verlängerung einer Zeitreihe des Durchflusses mit Hilfe eines Regressionsmodells),  
W85-04807 1809 2E

**DONADEY, C.**  
Histological Alterations Observed in Idotea balthica basteri Audouin 1827 (Crustacea, Isopoda) Exposed to the Chronic Effect of Non-Ionic Detergents,  
W85-03132 1803 5C

**DONAHUE, R.**  
Dual Nonsteady-State Evaluation of Static Aerators Treating Pharmaceutical Waste,  
W85-05252 1810 5D

**DONAHUE, R. T.**  
Comparison of Dome and Static Aerators Treating Pharmaceutical Waste,  
W85-05413 1810 5D

**DONAHUE, R. T.**  
Fate of Nitrate in a Single Stage Nitrification Activated Sludge System,  
W85-05557 1810 5D

**DONALDSON, D.**  
Regional Authorities Support Small Water Systems in the Americas,  
W85-00706 1802 6B

**DONALDSON, T. L.**  
Biooxidation of Coal Gasification Wastewaters,  
W85-04038 1808 5D

**DONCHENKO, E. G.**  
High-Head Spillway with Swirling of the Flow in the Outlet Section,  
W85-04420 1809 8A

**DONEAUD, A. A.**  
Area-Time Integral as an Indicator for Convective Rain Volumes,  
W85-01542 1803 2B

**DONENBERG, V. M.**  
Transformation of the Ob River Channel Downstream of the Novosibirsk Hydroelectric Station,  
W85-06710 1812 6G

**DONG, A.**  
Release of Phosphorus and Metals from Soils and Sediments during Dispersion,  
W85-06207 1812 2J

**DONG, T.**  
Process Design Manual for Land Application of Municipal Sludge,  
W85-05127 1810 5D

**DONGES, H. J.**  
Treatment of Surplus Activated Sludge from the Einscher Mouth Treatment Plant, F.R.G.,  
W85-04001 1808 5E

**DONNELLON, J. J.**  
Sludge Reduction by In-Plant Process Modification: New York City's Experiences,  
W85-07039 1812 5E

**DONNELLY, K. C.**  
Movement of Nitrogen Species Through Three Soils below Septic Fields,  
W85-01293 1803 5B

**DONNELLY, T.**  
Mutagenic Activity of Runoff and Leachate Water from Hazardous Waste Land Treatment,  
W85-02588 1805 5B

**DORRIER, R. C.**  
Application of Television Borehole Logging to Ground Water Monitoring Programs,  
W85-03190 1806 2F

**DORRLER, R. C.**  
Long-Term Confidence in Ground Water Monitoring Systems,  
W85-03183 1806 7B

**DORSCH, J. E.**  
Natural Organics as Fluorescent Tracers of River-Sea Mixing,  
W85-00667 1802 2L

**DORWARD, E. J.**  
Acute Toxicity Screening of Water Pollutants Using a Bacterial Electrode,  
W85-03668 1807 5A

**DONOVAN, J. F.**  
Using Pilot Plants to Design Facilities,  
W85-02302 1805 5E

**DONOVAN, J. J.**  
Interaction Between Groundwater and Surface Water Regimes and Mining-Induced Acid Mine Drainage in the Stockett-Sand Coulee Coal Field,  
W85-00583 1802 5B

**DONOVAN, W. C.**  
Factors Affecting the Volatilization of Ammonia from Land Applied Sewage Sludges,  
W85-05386 1810 5E

**DOOGIE, J. C. I.**  
Waters of the Earth,  
W85-01135 1803 2A

**DOORNBOS, G.**  
Changes in the Fish Fauna of the Former Grevelingen Estuary, before and after the Closure in 1971,  
W85-01765 1804 6G

**DORAN, T. M.**  
Oil Waste Treatment and Reclamation in the Automotive Industry,  
W85-05245 1810 5D

**DORE, M.**  
Mode of Action of Chlorine Dioxide on Organic Compounds in an Aqueous Medium; Chlorine Dioxide Consumption and Reactions on Phenolic Compounds (Mode d'Action du Bioxyde de Chlore sur les Composes Organiques en Milieu Aquaeus; Consommations de Bioxyde de Chlore et Reactions sur les Composes Phenoliques),  
W85-04302 1808 5F

**DOREMUS, C.**  
Microbial Metabolism in Surface Sediments and its Role in the Immobilization of Phosphorus in Oligotrophic Lake Sediments,  
W85-02076 1804 2J

**DORISKI, T. P.**  
Altitude of the Top of the Matawan Group-Magothy Formation, Suffolk Country, Long Island, New York,  
W85-02030 1804 7B

**DORNHEIM, L.**  
Determination of Traces of Mercury in Waters in the ppt-Range (Zur Bestimmung von Quecksilberspuren in Wassern im ppt-Bereich),  
W85-03280 1807 5A

**DORONIN, F. L.**  
Vibration Tests of the Andizhan Reservoir Butress Dam,  
W85-05024 1810 8G

**DORRIER, R. C.**  
Application of Television Borehole Logging to Ground Water Monitoring Programs,  
W85-03190 1806 2F

**DORRLER, R. C.**  
Long-Term Confidence in Ground Water Monitoring Systems,  
W85-03183 1806 7B

**DORSCH, J. E.**  
Natural Organics as Fluorescent Tracers of River-Sea Mixing,  
W85-00667 1802 2L

**DORWARD, E. J.**  
Acute Toxicity Screening of Water Pollutants Using a Bacterial Electrode,  
W85-03668 1807 5A

## AUTHOR INDEX

DOS SANTOS, A.

DOS SANTOS, A.  
Nutrient Addition Experiments in Lago Jacaretinga, Central Amazon, Brazil: 2. The Effect of Humic and Fulvic Acids,  
W85-01018 1802 2H

DOSS, R.  
Effect of Clear-Cut Silviculture on Dissolved Ion Export and Water Yield in the Piedmont,  
W85-02171 1804 5B

Forests, Floods, and Erosion: A Watershed Experiment in the Southeastern Piedmont,  
W85-01705 1804 2J

DOSTAL, K. A.  
Activated Sludge with Powdered Activated Carbon Treatment of Dyes and Pigments Processing Wastewater,  
W85-05553 1810 5D

Treatment of Dye and Pigment Processing Wastewater by the Activated Sludge Process,  
W85-05284 1810 5D

DOTAN, A.  
Cost Estimates for Hydropower at Existing Dams,  
W85-02442 1805 6C

DOTT, W.  
Microbiological Examination of a Two-Stage Wastewater Treatment Plant, I. Communication: Qualitative and Quantitative Examination of Aerobic and Facultatively Anaerobic Chemoheterotrophic Bacterial Populations (Mikrobiologische Untersuchungen einer zweistufigen Adsorptions-Beliebungsanlage, I. Mitteilung: Qualitative und quantitative Erfassung der aeroben und fakultativ anaeroben chemoheterotrophen Bakterienpopulationn),  
W85-02737 1806 5D

DOTY, C. W.  
Stream Water Levels Affect Field Water Tables and Corn Yields,  
W85-04726 1809 2F

Tillage Effects on Crop Yield in Coastal Plain Soils,  
W85-06079 1811 2G

DOUABUL, A. A. Z.  
Seasonal Variations of Oil Residues in Water of Shatt al-Arab River, Iraq,  
W85-05696 1810 5B

Trace Metals in Shatt Al-Arab River, Iraq,  
W85-06733 1812 5B

DOUCETTE, W. J.  
Use of Volatile Chloroorganics as a Measure of the Rehabilitation of the St. Louis River and Bay,  
W85-06867 1812 5A

DOUGHERTY, D. E.  
Flow to a Partially Penetrating Well in a Double-Porosity Reservoir,  
W85-02367 1805 2F

DOUGHERTY, R. C.  
Screening for Organic Contamination of Groundwater: Ethylene Dibromide in Georgia Irrigation Wells,  
W85-03669 1807 5A

DOUGHTIE, D. G.  
Histopathological Changes in Grass Shrimp Exposed to Chromium, Pentachlorophenol and Dithiocarbamates,  
W85-05894 1811 5C

DOUGLAS, L. A.  
Aggregate Breakdown in Relation to Raindrop Energy,  
W85-06747 1812 2G

DOUGLAS, S.  
Save the Everglades,  
W85-06563 1812 6G

DOUGLASS, J. E.  
Sediment and Nutrient Export in Runoff from Burned and Harvested Pine Watersheds in the South Carolina Piedmont,  
W85-06714 1812 5B

DOVEY, H. M.  
Experimental Marine Ecosystem Response to Crude Oil and Corexit 9527: Part 2 - Biological Effects,  
W85-04875 1809 5C

Frontal Zone Analysis at the Mouth of a Fjord - Jervis Inlet, British Columbia,  
W85-06876 1812 2L

DOWDENSWELL, J. A.  
Supraglacial Re-Sedimentation from Melt-Water Streams on to Snow Overlying Glacier Ice, Sylgjukokull, West Vatnajokull, Iceland,  
W85-00677 1802 2J

DOWNER, R. G. H.  
Stress-Related Changes in Lake Whitefish (*Coregonus clupeaformis*) Associated with a Hydroelectric Control Structure,  
W85-03312 1807 6G

DOWNES, M. T.  
Aspects of the Limnology of Lake Rotongao,  
W85-00807 1802 2H

Nitrate Cycling in Lake Titicaca (Peru-Bolivia): The Effects of High-Altitude and Tropicality,  
W85-04896 1809 2H

DOWNEY, J. S.  
Machine-Readable Data Files from the Madison Limestone and Northern Great Plains Regional Aquifer System Analysis Projects, Montana, Nebraska, North Dakota, South Dakota, and Wyoming,  
W85-01790 1804 7C

DOWNING, G. G.  
Occurrence of the Asiatic Clam *Corbicula fluminea* in the Maumee River and Western Lake Erie,  
W85-01753 1804 5C

DOYLE, J. D.  
Anaerobic Incubation of Membrane Filter Cultures for Improved Detection of Fecal Coliforms from Recreational Waters,  
W85-02595 1805 5A

Analysis of Sample Preparation Procedures for Enumerating Fecal Coliforms in Coarse Southwestern U.S. Bottom Sediments by the Most-Probable-Number Method,  
W85-02942 1806 5A

DOYLE, P. F.  
Analysis of Breakup and Ice Jams on the Athabasca River at Fort McMurray, Alberta,  
W85-04043 1808 2C

DOYLE, W. H. JR.  
Digital Model for Streamflow Routing by Convolution Methods,  
W85-03942 1808 2E

DRABKIN, M.  
Wastewater Treatment Systems for Synthetic Fuels Plants Based on Peat and Oil Shale,  
W85-04880 1809 5D

DRACOS, TH.  
Investigation of Plunging Density Currents Generated by Inflows in Lakes,  
W85-02930 1806 2H

DRACUP, J. A.  
Climate and the Colorado River: The Limits of Management,  
W85-02799 1806 4A

DRAGO, E. C.  
Limnological Studies in a Cross-Section of the Middle Reach of Parana River, I: Geomorpholo-

gical and Hydrological Characteristics (Estudios Limnologicos en una Sección Transversal del Tramo Medio del Rio Parana, I: Caracteres Geomorfologicos e Hidrologicos),  
W85-05172 1810 2E

Limnological Studies in a Cross-Section of the Middle Reach of Parana River, II: Characteristics and Temporal Variations of Suspended Sediment Granulometry (Estudios Limnologicos en una Sección Transversal del Tramo Medio del Rio Parana, II: Caracteristicas y Variaciones Temporales de la Granometria de los Sedimentos Suspensos),  
W85-05173 1810 2J

Limnological Studies in a Cross-Section of the Middle Reach of Parana River, IV: Influence of the Suspended Sediment Granulometric Composition on Water Transparency (Estudios Limnologicos en una Sección Transversal Del Tramo Medio Del Rio Parana, IV: Influencia de la Composicion Granometrica de los Sedimentos Suspensos Sobre la Transparencia del Agua),  
W85-05175 1810 2J

Limnological Studies in a Cross-Section of the Middle Reach of Parana River, VI: Water Temperature (Estudios Limnologicos en una Sección Transversal del Tramo Medio del Rio Parana, VI: Temperatura del Agua),  
W85-05177 1810 2H

DRAGOVICH, D.  
Geographical Variation in Monthly Rainfall and Milk Production in Eastern New South Wales,  
W85-01068 1802 2B

DRAGUN, J.  
Groundwater Contamination - Part 3: Remedial Action,  
W85-06453 1812 5G

Health and Environmental Aspects of Setting Cleanup Criteria,  
W85-06452 1812 5G

Transport and Transformations of Organic Chemicals,  
W85-06451 1812 5B

DRAKE, J. J.  
Effects of Geomorphology and Seasonality on the Chemistry of Carbonate Groundwater,  
W85-00019 1801 2F

DRAPEAU, G.  
Sediment Cap Stability Study, New York Dredged Material Dumpsite,  
W85-00053 1801 5E

DRAPER, R. E.  
Assessment of Steady-State Propane-Gas Tracer Method for Resorption Coefficients - Cowleson Creek, New York,  
W85-00838 1802 5G

DRAPER, W. M.  
Photochemistry and Volatility of Drepamon in Water,  
W85-02721 1806 5B

D RATNAL, E.  
Composition and Zonation of Benthic Invertebrate Communities in Some Chemically Stressed Aquatic Habitats of Niepolomice Forest (South Poland),  
W85-00233 1801 5C

DRAULANS, D.  
Effects of Heating on Growth and Condition of Pikeperch (*Lucioperca lucioperca*) in Lowland Ponds Created by Sand Extraction,  
W85-06788 1812 5C

DREGNE, H. E.  
Combating Desertification: Evaluation of Progress,  
W85-03202 1806 4D

AUTHOR INDEX

DUGAS, W. A.

**DREISS, S. J.**  
Linear Unit-Response Functions as Indicators of Recharge Areas for Large Karst Springs, W85-00003 1801 2F

**DREISZIGER, N. F.**  
International Water Management in Canadian-American Relations, 1894-1907, W85-04588 1809 6E

**DRENNON, B. J.**  
Erosion of Earth Covers Used in Shallow Land Burial at Los Alamos, New Mexico, W85-01282 1803 5G

**DRESSING, S. A.**  
Selecting Critical Areas for Nonpoint-Source Pollution Control, W85-05950 1811 5G

**DRESSLER, R. F.**  
Hydraulic-Resistance Terms Modified for the Dressler Curved-Flow Equations, W85-02929 1806 2E

Unsteady Shallow Groundwater Flow Over a Curved Impermeable Boundary, W85-03166 1806 2F

**DRESSMAN, R. C.**  
Organic Halogen Measurements: Current Uses and Future Prospects, W85-06494 1812 5A

**DREW, D. M.**  
Investigation of the Removal of Organics and Nitrogen in an Oxidation Ditch, W85-07044 1812 5D

**DREW, D. P.**  
Accelerated Soil Erosion in a Karst Area: The Burren, Western Ireland, W85-00007 1801 2J

**DRISCOLL, C. T.**  
Interactions of Copper and Lead with *Nostoc muscorum*, W85-05040 1810 5B

Phosphorus Cycling in Ionically Polluted Onondaga Lake, New York, W85-05690 1810 5B

Physical, Chemical, and Biological Consequences of Episodic Aluminum Additions to a Stream, W85-05621 1810 5C

Short-Term Changes in the Base Neutralizing Capacity of an Acid Adirondack Lake, New York, W85-01917 1804 5B

Weak Acid/Base Systems in Dilute Acidified Lakes and Streams of the Adirondack Region of New York State, W85-05316 1810 2H

**DRITSCHILO, W.**  
Ecotoxicological Model for Energy Development and the Salton Sea, California, W85-03823 1808 4C

**DROGUE, C.**  
Deformations and Structure of Reservoirs in the Mesozoic Carbonate Series of Central Portugal (Eastern Part of Fatima Plateau) (Deformations Cassantes et Structure de Magasin dans la Couverture Carbonatée Mésozoïque du Centre du Portugal (Est du Plateau de Fatima)), W85-03537 1807 2F

Survey of a Coastal Karstic Aquifer by Analysis of the Effect of the Sea-tide: Example of the Kras of Slovenia, Yugoslavia, W85-03980 1808 2F

**DROLET, L. F.**  
Pilot-Plant Studies of Slow-Rate Filtration, W85-04408 1808 5F

**DROSTE, B. W.**  
Water Resources of the Tulalip Indian Reservation, Washington, W85-00030 1801 4B

**DROSTE, M.**  
Above Ground Standing Crop and Production of *Carex gracilis* Curt. in a Fen, W85-02242 1805 2L

**DROSTE, R. L.**  
Effect of Influent Concentration on the Startup of an Anaerobic Downflow Stationary Fixed Film (DSFF) Reactors, W85-05549 1810 5D

**DROZHZHINA, T. M.**  
Effect of Differential Porosity on the Nature of Moisture Migration and Salt Accumulation in Soil (as Exemplified by Newly Developed Soils of Tadzhikistan), W85-06751 1812 2G

**DRULINER, A. D.**  
Uranium Geochemistry in Groundwater from Tertiary Sediments, W85-04371 1808 2K

**DRUMMER, A. S.**  
Behavior of Trace Metals in *Mytilus edulis* During a Reciprocal Transplant Field Experiment, W85-02540 1805 5C

**DRUMMOND, C. J.**  
Fate of Contaminants During Treatment of H-Coal Process Wastewaters, W85-04878 1809 5D

**DRUS, E.**  
Suggestion for Year-Round Wastewater Utilization in the Forestry Industry (Vorschlag zur ganzjährigen Abwasserverwertung in der Forstwirtschaft), W85-01971 1804 5D

**DRUZHININ, G. V.**  
Quick Method of Field Observations of Wastewater Spreading in Lakes, W85-05161 1810 5A

**DRYDEN, S. J.**  
Accelerated Eutrophication in a New Zealand Lake: Lake Rotoiti, Central North Island, W85-06794 1812 2H

**DU ROSTU, M.**  
Biological Phosphorus Removal: Study of the Main Parameters, W85-03645 1807 5D

**DUBAND, D.**  
Precipitation in 6 Minutes. First Examination of Several Months of Recordings on Magnetic Cassettes (Les Precipitations en 6 Minutes. Premier Examen de Quelques Mois d'enregistrement Sur Cassette Magnétique), W85-00392 1801 2B

**DUBINCHUK, V. T.**  
Analysis of the Possibilities of Using Hydrochemical Earthquake Precursors, W85-04137 1808 2F

Identification of Hydrogeological Systems from Data of Isotope Tracer Investigations, W85-04122 1808 2F

**DUBINSKI, B. J.**  
Fluxes of Heavy Metals in Delaware River Freshwater Tidal Wetlands, W85-01805 1804 5B

**DUBOIS, P.**  
Impact Loads of Ships on Structures (Problèmes des chocs de bateaux sur les ouvrages), W85-00379 1801 8C

**DUBUC, Y.**  
Utilization of a Microcomputer in the Calculation of Calcocarbonic Equilibrium Curves, W85-04051 1808 5F

**DUCHON, K.**  
Pure O<sub>2</sub> Retrofit Doubles Plant's Capacity, W85-04953 1809 5D

**DUCHROW, R. M.**  
Effects of Lead Tailings on Benthos and Water Quality of Three Ozark Streams, W85-03068 1806 5C

**DUDA, A. M.**  
Cost-Effective Targeting of Agricultural Non-point-Source Pollution Controls, W85-05960 1811 5G

**DUDENKO, I. K.**  
On-Site Tests of a Segmental Constriction as a Flowmeter in Large Diameter Pipes, W85-05985 1811 8A

**DUDGEON, D.**  
Investigation into Some Physical and Biotic Effects of Flooding on Reservoir Mud Previously Subjected to a Period of Aerial Exposure, W85-01477 1803 2H

Investigation of Physical and Biological Processing of Two Species of Leaf Litter in Tai Po Kau Forest Stream, New Territories, Hong Kong, W85-00867 1802 2H

**DUDLER, I. V.**  
Temporal Variation of the Characteristics of Sands in Hydraulic-Fill Structures of the Riga Hydroelectric Station, W85-05023 1810 8D

**DUDLEY, D. R.**  
Fish Communities of Midwestern Rivers: A History of Degradation, W85-06565 1812 5C

**DUELL, L. F. W. JR.**  
Design and Implementation of Evapotranspiration Measuring Equipment for Owens Valley, California, W85-03188 1806 2D

**DUERK, M. D.**  
Automatic Dilution Gaging of Rapidly Varying Flow, W85-00852 1802 7A

**DUERR, A. D.**  
Hydrogeology and Water Quality of Six Landfill Sites in Hillsborough County, Florida, W85-01946 1804 5B

**DUEVER, M. J.**  
Hydrology-Plant Community Relationships in the Okefenokee Swamp, W85-01240 1803 2L

**DUFF, J. H.**  
Denitrification Associated with Stream Periphyton: Chamber Estimates from Undisrupted Communities, W85-03852 1808 2H

**DUFFNER, R. M.**  
Comparison of Periphyton Growth on Artificial and Natural Substrates in the Upper Spokane River, W85-04666 1809 2H

**DUFOUR, C. M. L.**  
Acid Deposition near a Sour Gas Plant in Southwestern Alberta, W85-06373 1812 5B

**DUGAN, J. T.**  
Hydrogeology of Parts of the Central Platte and Lower Loup Natural Resources Districts, Nebraska, W85-03905 1808 2F

**DUGAS, W. A.**  
Radar Precipitation Estimates for a Soil Water Balance, W85-03394 1807 7A

## AUTHOR INDEX

**DUGAS, W. A. JR.**

**DUGAS, W. A. JR.**  
Microclimate of a Rainfall Shelter, W85-06185 1812 2I

**DUINKER, J. C.**  
River Elbe: Processes Affecting the Behaviour of Metals and Organochlorines During Estuarine Mixing, W85-01836 1804 5B

River Weser Processes Affecting the Behaviour of Metals and Organochlorines during Estuarine Mixing, W85-01837 1804 5B

**DUKE, E.**  
Heavy Metal Uptake and Intracellular Binding in Isolated Gill Preparations of *Mytilus galloprovincialis* L., W85-04358 1808 5C

**DUKE, H. R.**  
Integrated Water-Energy Management System for Center Pivot Irrigation: Functional Requirements, W85-04742 1809 7C

Integrated Water-Energy Management System for Center Pivot Irrigation: Implementation, W85-04743 1809 7C

Real Time Irrigation Scheduling via 'Reaching' Dynamic Programming, W85-02155 1804 3F

**DUL'KITE, O. A.**  
Computer Processing and Interpretation of Data of Experimental Studies in Aquifers Confined in Plan, W85-04134 1808 2F

Determination of the Parameters of Interconnected Confined and Unconfined Aquifers on a Computer, W85-04107 1808 2F

**DULAC, C.**  
Evolution of Algal and Detrital Components in the Particulate Organic Carbon of Three Rivers from the Bassin Parisien (Evolution du Carbone Organique Particulaire 'algal' et 'detritique' dans trois rivières du Bassin Parisien), W85-00630 1802 2H

**DULOY, J. H.**  
Modeling Efficient Water Allocation in a Conjunctive Use Regime: The Indus Basin of Pakistan, W85-03550 1807 6F

**DUMANOGLU, A. A.**  
Dynamic Response of Dams and Other Structures to Differential Ground Motions, W85-03053 1806 8E

**DUMAREY, R.**  
Optimization and Evaluation of Reduction-Aeration/Amalgamation for the Analysis of Mercury in Drinking-Water by Cold-Vapour Atomic Absorption Spectrometry (CVAAS), W85-06057 1811 5A

**DUMARS, C. T.**  
Impact of Recent Court Decisions Concerning Water and Interstate Commerce on Water Resources of the State of New Mexico, W85-04192 1808 6E

**DUMBLE, J. P.**  
Application of a Microcomputer in the Analysis of Pumping Test Data in Confined Aquifers, W85-03631 1801 4B

**DUMKIEWICZ, R.**  
Electrochemical Determination of Pollutants in Sea Water: Toxic Substances and Nutrients, W85-02312 1805 7B

**DUMNICKA, E.**  
Composition and Zonation of Benthic Invertebrate Communities in Some Chemically Stressed Aquatic Habitats of Niepolomice Forest (South Poland), W85-00233 1801 5C

Stream Ecosystems in Mountain Grassland (West Carpathians); 9. Oligochaeta, W85-02520 1805 5B

**DUMONTEL, M.**  
Remote Monitoring and Optimisation of Pumping at the Syndicat des Eaux de La Haute-Loue (Telesurveillance et Optimisation du Pompage du Syndicat des Eaux de La Haute-Loue), W85-02005 1804 5F

**DUMOUCHET, A.**  
Evaluation of Ecological Forecasting Previous to the Hydroelectric Development of a Natural Subarctic Reservoir (Evaluation et Prévision Ecologique Préalable à L'Amenagement Hydroélectrique D'un Reservoir Naturel Hémiaquatique), W85-04575 1809 6G

**DUNCAN, D. A.**  
Tolerance and Resistance to Cadmium in White Suckers (*Catostomus commersoni*) Previously Exposed to Cadmium, Mercury, Zinc, or Selenium, W85-00886 1802 5C

**DUNCAN, J. M.**  
Lateral Bulging of Earth Dams, W85-02259 1805 8D

**DUNGEY, M. J.**  
Quantitative Estimates of the Effect of Lake Michigan on Snowfall, W85-03846 1808 2B

**DUNIN, F. X.**  
Development and Proving of Models of Large Scale Evapotranspiration: An Australian Study, W85-06681 1812 2D

**DUNN, C. S.**  
Benthic Community Metabolism in Four Temperate Stream Systems: An Inter-Biome Comparison and Evaluation of the River Continuum Concept, W85-06792 1812 2H

**DUNN, H. J.**  
Declining-Rate Filters: Regulatory Aspects and Operating Results, W85-04407 1808 5F

**DUNIN, R. W.**  
In Situ Nitrogen Enrichment Experiments in Two Idaho (U.S.A.) Streams, W85-06284 1812 5C

**DUNN, S. J.**  
Effect of Domestic Effluents on Groundwater Quality: A Case Study, W85-04361 1808 5B

**DUNNE, T.**  
Sediment Production From Forest Road Surfaces, W85-03576 1807 2J

**DUNNING, J. D.**  
Effects of Aqueous Chemical Environments on Crack Propagation in Quartz, W85-00723 1802 8E

**DUNSON, W. A.**  
Field and Laboratory Studies of Ion Balance and Growth Rates of Ranid Tadpoles Chronically Exposed to Low pH, W85-06859 1812 5C

**DUNSTALL, T. G.**  
Mortality of Zooplankton Resulting from Temperature Regimens Encountered in Once-Through Cooling Systems, W85-06862 1812 5C

**DUNSTAN, E. R.**  
Fly Ash and Fly Ash Concrete, W85-04936 1809 8F

Fly Ash and Fly Ash Concrete, W85-05596 1810 8F

Parker Dam Concrete Core Investigations, W85-04935 1809 8F

**DUPONT, H. L.**  
Detection of Enteric Viruses in Treated Drinking Water, W85-02136 1804 5F

**DUPONT, R.**  
Increasing Interest of Public Electricity Suppliers in Micro Power Plants (Aufleben kleiner Wasserkräfte auch beim öffentlichen Elektrizitätsversorgungsunternehmen), W85-04628 1809 6C

**DURAND, R.**  
Water Transfer in Plants; III. - Simulation of the Influence of Canopy Parameters for Diurnal Development of Leaf Water Potential (Transfert Hydrique dans le végétal; III. - Simulation de l'influence des paramètres du couvert sur l'évolution diurne du potentiel hydrique foliaire), W85-00085 1801 2I

**DURHAM, R. W.**  
Dose Equivalent Commitments from Fallout Radionuclides in the Open Waters of the Great Lakes, 1973-1981, W85-05103 1810 5B

Finite Element Analysis of a Radioactive Tritium Patch and a Waste Heat Plume Observed near the Pickering Nuclear Power Generating Station, Lake Ontario, W85-01359 1803 5B

**DURHAN, E.**  
Tetrachloro-9H-Carbazole, a Previously Unrecognized Contaminant in Sediments of the Buffalo River, W85-00927 1802 5C

**DURNFORD, D. S.**  
Optimal Drain Design for Arid, Irrigated Areas, W85-03403 1807 3F

**DURVE, V. S.**  
Acute Toxicity of Antimycin A, Bayer 73 and 3-Trifluoromethyl-4-Nitrophenol to a Freshwater Teleost *Lebiasina reticulata* (Peters), W85-03236 1807 5C

Acute Toxicity of Phenol, Pentachlorophenol and Sodium Pentachlorophenate to a Freshwater Ostracod *Cypris subglobosa* (Sowerby), W85-06271 1812 5C

Evaluation of the Toxicity of Sodium Pentachlorophenolate, Pentachlorophenol and Phenol to the Snail *Viviparus bengalensis* (L.), W85-02898 1806 5C

Sensitivity of Toad Larvae to 2,4-D and Endosulfan Pesticides, W85-01369 1803 5C

**DURY, G. H.**  
Step-functional Change in Annual Peak Flow Illustrated for the Ishikari River at Hashimoto-cho, Hokkaido, W85-00928 1802 4A

**DUSAUSKENE-DUZH, P. F.**  
Dependence of the Radionuclide Accumulation Level in Aquatic Plants on Ecological Factors (Zavisimost' Urovnya Nakopleniya Padionuklidov v Vodnykh Rasteniyakh et Ekologicheskikh Faktorov), W85-06484 1812 5B

**DUSSART, G. B. J.**  
Effects of Motorway Run-Off on the Ecology of Stream Algae, W85-04466 1809 5C

## AUTHOR INDEX

ECCLES, C. R.

<b>DUTANG, M.</b> General Strategy for Security in Water Supply, W85-01990	1804 5G	<b>DYBEK, K.</b> Modeling of Groundwater Conditions in the Leipzig-Delitzsch Mining Region (Modellierung der Grundwasserbeziehungen im Bergbauregion Leipzig-Delitzsch), W85-04321	1808 2F	<b>DZHEIBO, L. YA.</b> Method of Determining the Maximum Flood Inflow to the Middle Enisei Hydroelectric Sta- tion, W85-00479	1801 4A
<b>DUTCHEK, S. K.</b> Atmospheric Deposition: Sample Handling, Storage, and Analytical Procedures for Chemical Characterization of Event-Based Samples in North Dakota, W85-03949	1808 5A	<b>DYCK, G. E.</b> Snowmelt Infiltration to Frozen Prairie Soils, W85-03765	1807 2A	<b>DZURIK, A. A.</b> Environmental Conflicts in a Rapidly Growing Coastal Economy: The Case of South Florida, W85-00576	1802 6G
<b>DUTKA, B. J.</b> Influence of Acid Precipitation on Bacterial Populations in Lakes, W85-00404	1801 5C	<b>DYCK, S.</b> Ensuring a High Level of Effectiveness and Intensity of Agricultural and Water-Management Production in Drinking-Water Catchment Areas (Sicherung hoher Effektivität und Intensität der landwirtschaftlichen und wasserwirtschaftlichen Produktion in Trinkwasser-Einzugsgebieten), W85-01883	1804 4D	<b>WATER USE AND PUBLIC POLICY IN FLORIDA,</b> W85-01575	1803 6E
Microbiological Examination of Lake Erie and Lake Ontario Sediments, W85-00403	1801 2H	<b>DYE, P. J.</b> Effects of Dredging on the Macrophytic Vegeta- tion of the Boro River, Okavango Delta, Bot- swana, W85-03762	1807 6G	<b>EADIE, B. J.</b> Sediment Trap Studies in Lake Michigan: Resus- pension and Chemical Fluxes in the Southern Basin, W85-02892	1806 2J
Sensitivity of <i>Legionella pneumophila</i> to Sun- light in Fresh and Marine Waters, W85-03431	1807 5B	<b>DYER, J. A.</b> Monitoring Drought for Grazing Land Manage- ment, W85-01322	1803 4A	<b>EADON, A. R.</b> Measurement of the Performance of Sewerage Systems and Associated Hydraulic Structures - Recent Developments, W85-04511	1809 1D
<b>DUTRIZAC, J. E.</b> CANMET'S Project on the Chemistry, Genera- tion and Treatment of Thiosalts in Milling Ef- fluentes, W85-07091	1812 5D	<b>DYER, K. L.</b> Stream Water Quality in the Coal Region of Tennessee, W85-06980	1812 5C	<b>EARHART, H. G.</b> Monitoring Total Suspended Solids by Using Nephelometry, W85-00976	1802 5A
<b>DUTT, G. R.</b> Effect of Slope and Rainfall Intensity on Erosion from Sodium Dispersed, Compacted Earth Mi- crocatchments, W85-05191	1810 3B	<b>DYER, K. R.</b> Mixing Caused by Lateral Internal Seiching within a Partially Mixed Estuary, W85-00656	1802 2L	<b>EASEY, J. F.</b> Evaluation of Tracer Dilution Techniques for Gauging of Rivers in Flood, W85-03085	1806 2E
<b>DUTTON, A. R.</b> Brackish Water in Unsaturated Confining Beds at a Texas Lignite Mine, W85-04639	1809 2F	<b>DYGA, A. K.</b> Effect of Water Reaction (pH) on Individual Members of Zooplankton and Macrofauna in Connection with Industrial Pollution of Water Bodies, W85-04133	1808 5C	<b>EAST, R.</b> Rainfall, Soil Nutrient Status and Biomass of Large African Savanna Mammals, W85-03630	1807 2B
<b>DUURSMA, E. K.</b> Organochlorine Contamination of the Dutch Delta Region as 'Watched' by Mussels, W85-00571	1802 5A	<b>DYHOUSE, G. R.</b> Stage-Frequency Analysis at a Major River Junction, W85-06035	1811 2E	<b>EASTER, K. W.</b> Ex Post Evaluation of Flood Control Invest- ments: A Case Study in North Dakota, W85-03983	1808 6B
<b>DUVAL, P.</b> Mechanisms of Plastic Deformation of Polycrys- talline Ice (Mécanismes de la déformation plasti- que de la glace polycristalline), W85-05018	1810 2C	<b>DYKE, P. T.</b> Modeling Approach to Determining the Rela- tionship between Erosion and Soil Productivity, W85-03374	1807 2J	Proposed Framework for Developing a Multi- disciplinary Wetlands Valuation Model, W85-04684	1809 2L
<b>DUVAL, W. S.</b> Sublethal Effects of Dispersed Oil on an Estua- rine Isopod, W85-06971	1812 5C	<b>DYKSEN, J. E.</b> Removing Organics from Groundwater through Aeration Plus GAC, W85-00700	1802 5F	<b>EASTHAM, A.</b> Stomatal Control of Water Use Efficiency in Poplar Clones and Hybrids, W85-01646	1804 2I
<b>DUZZIN, B.</b> Chemical and Physical Characteristics of the Waters of the Adige River and Its Greatest Tributaries, Running through the Verona's Area (Indagine Preliminare Sulle Caratteristiche Fi- siche e Chimiche del Tratto Veronese Dell'A- dige e Dei Suoi Affluenti a Regime Perenne), W85-02502	1805 5B	<b>DYMOND, J. R.</b> Accuracy of Discharge Determined from a Rating Curve, W85-00694	1802 2E	<b>EASTHAM, J.</b> Leaf Water and Turgor Potential Threshold Values for Leaf Growth of Wheat, W85-03362	1807 2I
<b>DVORAKOVA, M.</b> Three-Layer Aquatic Ecosystem Model: Sediment Submodel Tests and Some Simulations, W85-01114	1802 2H	<b>DYRETON, C.</b> Water Temperature Change Caused by Abstrac- tion, W85-01561	1803 6G	<b>EASTMAN, K. W.</b> Behaviour of Iron, Manganese, Phosphate and Humic Acid During Mixing in a Delaware Salt Marsh Creek, W85-00290	1801 2L
<b>DWYER, F. J.</b> Bioavailability of Pb and Zn from Mine Tailings as Indicated by Erythrocyte delta-Aminolevulic Acid Dehydratase (ALA-D) Activity in Suckers (Pisces: Catostomidae), W85-01918	1804 5A	<b>DYRSSEN, D.</b> Simultaneous Determination of Partition Coeffi- cients and Acidity Constants of Chlorinated Phenols and Guaiacols by Gas Chromatography, W85-02115	1804 5A	<b>EASTMOND, D. A.</b> Toxicity, Accumulation, and Elimination of Poly- cyclic Aromatic Sulfur Heterocycles in <i>Daphnia magna</i> , W85-02195	1805 5C
<b>DWYER, L. M.</b> Water Stress Conditioning of Corn ( <i>Zea mays</i> ) in the Field and the Greenhouse, W85-07140	1812 2I	<b>DYTINYSHYN, D. J.</b> Diffusion of Nonreactive and Reactive Solutes through Fine-Grained Barrier Materials, W85-03427	1807 5E	<b>EATON, F. E.</b> Survey of the Use of Activated Carbon Water Filters in Canadian Homes, W85-06102	1811 5F
<b>DYACHIKOV, A. V.</b> Necessity of Creation of Universal Water Qual- ity Classification (O Neobkhodimosti Sozdanija Universal'noi Klassifikatsii Kachestva Vod), W85-06474	1812 5A	<b>DZANTOR, E. K.</b> Pesticides in Groundwater Beneath the Central Sand Plain of Wisconsin, W85-02025	1804 5B	<b>EATON, J. G.</b> Toxicity of Endrin and Malathion Mixtures to Flagfish ( <i>Jordanella floridae</i> ), W85-07156	1812 5C
				<b>EATON, J. S.</b> Long-Term Trends in Precipitation Chemistry at Hubbard Brook, New Hampshire, W85-04502	1809 5B
				<b>ECCLES, C. R.</b> Versatile Computer-Controlled Fermentor for the Simulation of Wastewater Treatment Sys- tems, W85-06837	1812 5D

## AUTHOR INDEX

**ECCLES, P. G.**

**ECCLES, P. G.**  
Subby Reservoir, Isle of Man: Design and Construction,  
W85-01521 1803 8A

**ECHELMAYER, K. A.**  
Glacier Surge Mechanism: 1982-1983 Surge of Variegated Glacier, Alaska,  
W85-04472 1809 2C

**ECK, H. V.**  
Runoff, Soil, and Nutrient Losses from Range-land and Dry-Farmed Cropland in the Southern High Plains,  
W85-05970 1811 5B

**ECKARD, J. H.**  
Convert the Brook on Your Farm to Electric Current,  
W85-04813 1809 8C

**ECKBERG, D. K.**  
Nonsteady Three-Phase Immiscible Fluid Distribution in Porous Media,  
W85-03995 1808 5B

**ECKERSTEN, H.**  
Water Transfer From Soil Through Plants to the Atmosphere in Willow Energy Forest,  
W85-05871 1811 2I

**ECKERT, J. M.**  
Speciation of Iron, Copper and Zinc in the Hawkesbury River,  
W85-00786 1802 5A

**ECKOFF, T.**  
Activated Sludge Process: Fundamentals of Operation,  
W85-06932 1812 5D

**ECKRICH, H. M.**  
Polluting Sewers Brought Under Control,  
W85-04403 1808 5D

Polluting Sewers Brought Under Control,  
W85-05470 1810 5G

**ECKSTEIN, Y.**  
Computer Program for a Trilinear Diagram Plot and Analysis of Water Mixing Systems,  
W85-03630 1801 5A

**ECONOMOPOULOS, A. P.**  
Planning Effective Industrial Liquid Waste Controls in Developing Nations,  
W85-06287 1812 6A

**ECONOMOU-AMILLI, A.**  
Limnological Survey of Three Greek Lakes: Trichonis, Lissimachia and Amvrakia (Ein Limnologischer Überblick von drei Griechischen Seen: Trichonis, Lissimachia und Amvrakia),  
W85-00771 1802 2H

**EDDS, J.**  
Water Resources Data, Arkansas, Water Year 1982,  
W85-01934 1804 2E

**EDDY, B.**  
Uptake and Accumulation of Zinc in Juvenile Rainbow Trout, *Salmo gairdneri*,  
W85-01120 1803 5C

**EDDY, R. L.**  
Southwest Drought Research Program. Final Report,  
W85-04195 1808 3B

**EDELSTEIN, P. H.**  
*Legionella anisa*: A New Species of *Legionella* Isolated From Potable Waters and a Cooling Tower,  
W85-05046 1810 5B

**EDER, G.**  
Electron-Microanalytical Investigations of the Interfacial Corrosion in Concrete,  
W85-01129 1803 8F

**EDGERTON, E. S.**  
Precipitation Chemistry at Turrialba, Costa Rica,  
W85-03568 1807 2K

**EDGINGTON, D. N.**  
Long-term Phytoplankton Changes in Lake Michigan: Cultural Eutrophication or Biotic Shifts,  
W85-02639 1805 2H

**EDIALE, P. W.**  
New Port of Sapele, Nigeria,  
W85-02948 1806 8A

**EDINGER, J. E.**  
User Guide for CE-QUAL-ELV2: A Longitudinal-Vertical, Time-Varying Estuarine Water Quality Model,  
W85-06957 1812 2L

**EDMISTON, C. E. JR.**  
Evaluation of Carbamate Toxicity: Acute Toxicity in a Culture of *Paramecium multimicronucleatum* Upon Exposure to Aldicarb, Carbaryl, and Mexacarbate as Measured by Warburg Respirometry and Acute Plate Assay,  
W85-06168 1811 5C

**EDMOND, J. M.**  
Reverse Weathering in the Closed-Basin Lakes of the Ethiopian Rift,  
W85-02468 1805 2K

**EDMONDSON, W. T.**  
Mt. St. Helens Ash in Lakes in the Lower Grand Coulee, Washington State,  
W85-02643 1805 5C

**EDMUND, W. M.**  
Lincolnshire Limestone - Hydrogeochemical Evolution Over a Ten-Year Period,  
W85-00017 1801 2F

**EDSON, D. F.**  
Microcomputer Billing for the Small Water Utility,  
W85-01316 1803 6C

**EDWARD, D. G.**  
Proposed Legal Framework for the Regulation of Drinking Water,  
W85-04766 1809 6E

**EDWARD, D. H. D.**  
Seasonal Meromixis in Three Hypersaline Lakes on Rottnest Island, Western Australia,  
W85-01645 1804 2H

**EDWARD-INATIMI, E. B.**  
Multi-Element Analysis of Trace Metals in Some Environmental Samples by Solvent Extraction and High-Performance Liquid Chromatography of Metal Chelate Complexes,  
W85-00166 1801 5A

**EDWARDS, A. M. C.**  
Effects of the Yorkshire Rivers on Dissolved Oxygen in the Humber Estuary,  
W85-01397 1803 5B

**EDWARDS, C. J.**  
Mitigating Effects of Artificial Riffles and Pools on the Fauna of a Channelized Warmwater Stream,  
W85-00203 1801 6G

**EDWARDS, G. A.**  
Removing Color Caused by Humic Acids,  
W85-06585 1812 5F

**EDWARDS, J. H.**  
Effect of Sewage Sludge on Mobilization of Surface-Applied Calcium in a Greenville Soil,  
W85-06748 1812 5E

**EDWARDS, K. W.**  
Releases of Radium and Uranium into Ralston Creek and Reservoir, Colorado, from Uranium Mining,  
W85-06776 1812 5B

**EDWARDS, P. R.**  
COPA II and the River Mersey - an Industrial View,  
W85-02226 1805 5D

**EDWARDS, W. M.**  
Subsoil Characteristics Influence Hydrologic Response to No-Tillage,  
W85-03396 1807 3F

**EDZWALD, J. K.**  
Surrogate Parameters for Monitoring Organic Matter and THM Precursors,  
W85-06491 1812 5F

**EFFLER, S. W.**  
Carbonate Equilibria and the Distribution of Inorganic Carbon in Saginaw Bay,  
W85-01356 1803 2H

Chloride Loading to Lake Ontario From Onondaga Lake, New York,  
W85-06863 1812 5B

Onondaga Lake and the Dynamics of Chloride in the Oswego River,  
W85-00549 1802 2H

Phosphorus Cycling in Ionically Polluted Onondaga Lake, New York,  
W85-05690 1810 5B

Scattering and Absorption of Light in Onondaga Lake,  
W85-03805 1808 2H

**EGANHOUSE, R. P.**  
Alpha-Tocopherol Acetate as an Indicator of Municipal Waste Contamination in the Environment,  
W85-05119 1810 5A

**EGGLESTON, J. R.**  
Freshwater Oncolites Created by Industrial Pollution, Onondaga lake, New York,  
W85-03217 1806 5C

**EGIDE, J. C.**  
Copper Recovery from a Brass Bright Dipping Solution,  
W85-05427 1810 5D

**EGLI, D. B.**  
Effect of Moisture Stress on Seed Growth in Soybeans,  
W85-03356 1807 2I

**EGORSHIN, S. I.**  
Ecological Aspects of the Design and Operation of Conduits of Hydroelectric Schemes,  
W85-05986 1811 5G

**EHLERINGER, J. R.**  
Field Water Relations of Sonoran Desert Annuals,  
W85-02817 1806 2I

Intraspecific Competitive Effects on Water Relations, Growth and Reproduction in *Encelia farinosa*,  
W85-02342 1805 2I

**EHRENFIELD, J. G.**  
Feasibility of Using Forest Vegetation to Remove Septic Tank Effluent in the New Jersey Pine Barrens,  
W85-06310 1812 5D

**EHRЛИCH, G. G.**  
Degradation of Phenolic Contaminants in Ground Water by Anaerobic Bacteria: St. Louis Park, Minnesota,  
W85-00348 1801 5D

Subsurface Injection of Treated Sewage into a Saline-Water Aquifer at St. Petersburg, Florida - Water-Quality Changes and Potential for Recovery of Injected Sewage,  
W85-01526 1803 5D

## AUTHOR INDEX

EL-SHAARAWI, A. H.

<b>EHRLICH, R.</b>			
Origin of Shape Changes of Sand and Silt in a High-Gradient Stream System, W85-05618	1810	2J	
<b>EICEMAN, G. A.</b>			
Removal of Volatile Organic Pollutants from Rapid Streams, W85-01738	1804	5B	
<b>EICHELMERGER, M. P.</b>			
Stabilization of Sludge from an Oxidation Ditch, W85-02575	1805	5E	
<b>EICHELSDORFER, D.</b>			
Investigation and Development of Swimming Pool Water Treatment, III. Long Contact Time Ozonation for Pool Water Treatment (Erforschung und Entwicklung der Schwimmbeckenwasserbereitung. III. Mitt: Badewasserbereitung mit Ozon im Langzeitkontakt), W85-02740	1806	5D	
<b>EICHHORN, D.</b>			
Studies on the Technology of Underground Water Treatment (Untersuchungen zu den Technologien der Aufbereitung von Wasser im Untergrund), W85-03526	1807	5F	
<b>EICHWALD, G.</b>			
Water Law, W85-01246	1803	6E	
<b>EIDE, O.</b>			
Unconventional Concepts for Dykes and Dams on Soft Clay Foundation, W85-03429	1807	8A	
<b>EIDT, D. C.</b>			
Partitioning and Short-Term Persistence of Fenitrothion in New Brunswick (Canada) Headwater Streams, W85-02190	1805	5B	
<b>EIKENBERRY, K.</b>			
Groundwater Quality: The Next Regulatory Issue, W85-00980	1802	5G	
<b>EIKUM, A. S.</b>			
Electrocoagulation of Potable Water, W85-02906	1806	5F	
Removing Aquatic Humus from Norwegian Lakes, W85-06586	1812	5F	
Septage Quantity, Characteristics and Treatment Methods, W85-05204	1810	5D	
<b>EILERS, J. M.</b>			
Species Composition of Fish Communities in Northern Wisconsin Lakes: Relation to pH, W85-04206	1808	5C	
<b>EILERS, R. G.</b>			
GAC Treatment Costs: A Sensitivity Analysis, W85-02274	1805	5F	
<b>EILES, R. G.</b>			
VOCs in Drinking Water: Cost of Removal, W85-03806	1808	5F	
<b>EINARSSON, S.</b>			
Sources of Alkalinity in Lake Miklavatn, North Iceland, W85-01586	1803	2H	
<b>EINOR, L. O.</b>			
Investigation of the Space-Time Variability of Physical, Chemical, and Biological Indices in Reservoirs for the Purpose of Their Regionalization with Special Reference to the Ivankovo Reservoir, W85-04104	1808	2H	
Role of Higher Aquatic Vegetation in Improving Water Quality and Increasing Biological Productivity of Reservoirs, W85-06713	1812	5G	
<b>EISENBERG, M.</b>			
Organochlorine Residues in Shellfish from Maryland Waters, 1976-1980, W85-04437	1809	5B	
Trace Metal Residues in Shellfish from Maryland Waters, 1976-1980, W85-04436	1809	5B	
<b>EISENBERG, T. N.</b>			
Survey of Problems with Reverse Osmosis Water Treatment, W85-02400	1805	5F	
<b>EISENHAUER, D. E.</b>			
Tillage Influences on Erosion During Furrow Irrigation, W85-04749	1809	4C	
Tillage Practice Effects on Water Conservation and the Efficiency and Management of Surface Irrigation Systems, W85-06315	1812	3F	
<b>EISENHAUER, E. J.</b>			
Automated Plugging Factor Monitor-Specifications, W85-04210	1808	3A	
<b>EISENHAUER, R. J.</b>			
Characterization of Glenwood Springs and Dotsoro Springs Waters, W85-05329	1810	2K	
Characterization of Water from LaVerkin Springs, Utah, W85-05309	1810	2K	
Development of an Automated Plugging Factor Monitor, W85-05597	1810	3A	
<b>EISENREICH, S. J.</b>			
Impact of Land-Use on the Acid and Trace Element Composition of Precipitation in the North Central U.S., W85-00243	1801	2K	
Metals and Chlorinated Hydrocarbons in Surficial Sediments of Three Nile Delta Lakes, Egypt, W85-05037	1810	6G	
<b>EISMA, D.</b>			
Dispersal of Zaire River Suspended Matter in the Estuary and the Angola Basin, W85-03674	1807	2L	
<b>EISNACH, L.</b>			
Waterborne Disease in Colorado: Three Years' Surveillance and 18 Outbreaks, W85-05521	1810	5F	
<b>EJIKE, C.</b>			
Diurnal Variations of Physico-Chemical Factors and Planktonic Organisms in Jos Plateau (West Africa) Water Reservoir, W85-00544	1802	2H	
Limnological Aspects of Plankton Variation and Water Characteristics of a Tropical West African Reservoir, W85-05643	1810	2H	
<b>EK, M.</b>			
Influence of Atmospheric Stability on Potential Evaporation, W85-01044	1802	2D	
<b>EKERN, P. C.</b>			
Effluent Irrigation of Para Grass: Water, Nitrogen, and Biomass Budgets, W85-03132	1806	3C	
Measured Evaporation in High Rainfall Areas, Leeward Ko'Olau Range, Oahu, Hawaii, W85-06345	1812	2D	
<b>EL-AHRAF, A.</b>			
Environmental Engineering and Public Health Aspects of Alternate Dairy Waste Management Techniques Designed to Protect Ground Water Quality, W85-02724	1806	5E	
<b>EL-ASHRY, M. T.</b>			
Salinity Pollution from Irrigated Agriculture, W85-05945	1811	5B	
<b>EL-BAGHDADY, A.</b>			
Analysis of Water Desalination and Power Generation Expansion Plans for the Emirate of Abu Dhabi - A Preliminary Study, W85-01221	1803	3A	
<b>EL-DIB, M. A.</b>			
Organ-chlorine Insecticides and PCBs in River Nile Water, Egypt, W85-04352	1808	5B	
Organochlorine Insecticides and PCBs in Water, Sediment, and Fish from the Mediterranean Sea, W85-04473	1809	5B	
Persistence and Fate of Methyl Parathion in Sea Water, W85-01090	1802	5B	
<b>EL-FITIANY, F. A.</b>			
Charts for Water Hammer in Low Head Pump Discharge Lines Resulting from Water Column Separation and Check Valve Closure, W85-05455	1810	8B	
<b>EL-GEUNDI, M. S.</b>			
Colour Removal from Textile Effluents Using Hardwood Sawdust as an Absorbent, W85-06659	1812	5D	
<b>EL GHANDOUR, M. F. M.</b>			
Distribution of Carbonates, Bicarbonates, and pH Values in Ground Water of the Nile Delta Region, Egypt, W85-04638	1809	2K	
<b>EL-KADI, A. I.</b>			
Applicability of Effective Parameters for Unsteady Flow in Nonuniform Aquifers, W85-04598	1810	2F	
<b>EL MOGHABY, A. I.</b>			
Faunistic Reconnaissance of Lakes Kundu and Keilak, Western Sudan, W85-01027	1802	2H	
<b>EL-NASHAR, A. M.</b>			
Analysis of Water Desalination and Power Generation Expansion Plans for the Emirate of Abu Dhabi - A Preliminary Study, W85-01221	1803	3A	
Solar Desalination Using the Vacuum Freezing Ejector Absorption (VFEA) Process, W85-01222	1803	3A	
<b>EL-RAYIS, O. A.</b>			
Status of Nutrients in Lake Mariut, a Delta Lake in Egypt Suffering from Intensive Pollution, W85-03241	1807	5B	
<b>EL-SABH, M. I.</b>			
Estuarine Mean Flow Estimation Revisited: Application to the St. Lawrence Estuary, W85-05736	1810	2L	
Variability of the Near-Surface Residual Current in the Lower St. Lawrence Estuary, W85-00516	1802	2L	
<b>EL-SHAARAWI, A. H.</b>			
Coliform Concentrations in Lake Erie - 1966 to 1970, W85-00419	1801	5A	
Dissolved Oxygen Concentrations in Lake Erie (U.S.A.-Canada); 1. Study of Spatial and Temporal Patterns, W85-00420	1802	5A	

## AUTHOR INDEX

**EL-SHAARAWI, A. H.**

poral Variability Using Cluster and Regression Analysis,  
W85-01609 1803 2H

Dissolved Oxygen Concentrations in Lake Erie (U.S.A. - Canada); 2. A Statistical Model for Dissolved Oxygen in the Central Basin of Lake Erie,  
W85-01610 1803 2H

Use of Historical Data for Estimating the Number of Samples Required for Monitoring Drinking Water,  
W85-06703 1812 5F

**EL-SHARKAWY, M. A.**  
Water Use Efficiency of Cassava. I. Effects of Air Humidity and Water Stress on Stomatal Conductance and Gas Exchange,  
W85-01108 1802 2I

Water Use Efficiency of Cassava. II. Differing Sensitivity of Stomata to Air Humidity in Cassava and Other Warm-Climate Species,  
W85-01109 1802 2I

**ELBAUM, S. I.**  
Toxicity of Condensate from Polyester II-520 Production for *Daphnia magna* Straus and Its Effect on Self-Purification (Toksichnost' Kondensata po Proizvodstvu Poliefira P-520 Dlya *Daphnia magna* Straus i Ego Vliyanie na Protsess Samoochishcheniya),  
W85-06461 1812 5C

**ELDER, J. F.**  
Accumulation of Trace Elements, Pesticides, and Polychlorinated Biphenyls in Sediment and the Clam *Corbicula manilensis* of the Apalachicola River, Florida,  
W85-02213 1805 5B

**ELDER, R. J.**  
Technical Support Package on Solar-Powered Water Distillation,  
W85-06916 1812 5F

**ELEPHERIOU, A.**  
Underwater Experiments on the Effects of Sewage Sludge on a Marine Ecosystem,  
W85-01628 1803 5C

**ELFIMOV, V. I.**  
Kinematic Structure of Flow in a Trapezoidal Channel,  
W85-04421 1809 8B

**ELGAMAL, A.-W. M.**  
Nonlinear Hysteretic Dynamic Response of Soil Systems,  
W85-07104 1812 8D

**ELHADI, N.**  
River Mixing - A State-of-the-Art Report,  
W85-04050 1808 5B

**ELIAN-TALAU, L.**  
Influence of the Geothermal Waters on Fishes and Aquatic Invertebrates, in the Plain of Banat (Influenta Apelor Geotermale, din Cimpia Banatului, Asupra Pestilor si Nevertebratorilor Acvatice),  
W85-03532 1807 5C

**ELIAS, V.**  
Cautions of Reinforced Earth with Residual Soils,  
W85-04326 1808 8D

**ELIASSON, E. T.**  
Krafla Geothermal Field, Iceland; 1. Analysis of Well Test Data,  
W85-03553 1807 2F

Krafla Geothermal Field, Iceland; 2. The Natural State of the System,  
W85-03554 1807 2F

Krafla Geothermal Field, Iceland; 3. The Generating Capacity of the Field,  
W85-03555 1807 4B

Krafla Geothermal Field, Iceland; 4. History Match and Prediction of Individual Well Performance,  
W85-03556 1807 4B

**ELIFRITS, C. D.**  
Characterization of Drainage on Reclaimed Land Mined under Public Law 95-087,  
W85-03069 1806 2E

**ELISEEV, D. A.**  
Relationship Between Decrease of Cockle Biomass and Particle-Size Distribution of Shell Material in the Azov Sea,  
W85-04124 1808 2J

**ELKINS, B. V.**  
Use of Artificial Wetlands to Remove Nitrogen Compounds from Wastewater,  
W85-01978 1804 5D

**ELLAVSKY, J. R.**  
Near Zero D.O. Activated Sludge Case History,  
W85-05556 1810 5D

**ELLAWAY, M.**  
Trace Metals in Sediments from the Yarra River,  
W85-00780 1802 5B

**ELLEFSON, B. R.**  
Public-Supply Pumpage in Wisconsin, by Aquifer,  
W85-00618 1802 4B

**ELLENDER, R. D.**  
Elution of Enteric Viruses from Mississippi Estuarine Sediments with Lecithin-Supplemented Eluents,  
W85-02934 1806 5A

**ELLGAAARD, E. G.**  
Effects of Temperature on the Locomotor Activity of the Bluegill Sunfish, *Lepomis macrochirus*,  
W85-06487 1812 5C

**ELLIOTT, J. G.**  
Sediment Transport in the Lower Yampa River, Northwestern Colorado,  
W85-02045 1804 2J

**ELLIOTT, J. W.**  
Alternative Approach to Linear and Nonlinear Stability Calculations at Finite Reynolds Numbers,  
W85-03749 1807 8B

**ELLIOTT, R. C. A.**  
Observed Fluxes of Water, Salt and Suspended Sediment in a Partly Mixed Estuary,  
W85-06852 1812 2L

**ELLIOTT, R. D.**  
Continuing Design, Review, and Analysis Work for the Sierra Cooperative Pilot Project,  
W85-05349 1810 3B

**ELLIS, C. E.**  
PACT/Wet Air Regeneration of an Organic Chemical Waste,  
W85-05225 1810 5D

**ELLIS, D. V.**  
Marine Disposal of Mine Tailing,  
W85-02324 1805 5C

**ELLIS, F. W.**  
Integrating Water Quality and Construction Grants Management,  
W85-02583 1805 5G

**ELLIS, H.**  
Impact of Alternative Housing Standards on Stormwater Management,  
W85-06554 1812 4A

Zero Side Yard Housing, Acceptance and Stormwater Management Implications,  
W85-04580 1809 4A

**ELLIS, J. B.**  
Hydrocarbon Accumulation in Freshwater Sediments of an Urban Catchment,  
W85-02078 1804 5B

**ELLIS, J. H.**  
Deterministic Linear Programming Model for Acid Rain Abatement,  
W85-06017 1811 5G

**ELLIS, S. R.**  
Calibration and Verification of a Rainfall-Runoff Model and a Runoff-Quality Model for Several Urban Basins in the Denver Metropolitan Area, Colorado,  
W85-02044 1804 2A

**ELLISON, G.**  
Automated Sensor Systems for Water Resource Pollution Warning and Treatment Process Control,  
W85-02010 1804 5F

**ELLISON, J. E.**  
Comparison of Daily and Weekly Precipitation Sampling Efficiencies Using Automatic Collectors,  
W85-05694 1810 7B

**ELMGHARI-TABIB, M.**  
Use of Ozonation in Treatment of Sewage,  
W85-06213 1812 5D

**ELMGREN, R.**  
Eutrophication and the Baltic Sea: Causes and Consequences,  
W85-05464 1810 5C

**ELMONAYERI, D.**  
Stability and Settling of Suspended Solids in Settling Ponds. Part II. Diffusion Analysis of Initial Settling of Suspended Solids,  
W85-05527 1810 2J

**ELMORE, J. L.**  
Biological Communities of Three Subtropical Florida Lakes of Different Trophic Character,  
W85-02240 1805 2H

**ELNOR, L. O.**  
Characteristics of the Formation of the Oxygen Regime and pH of Natural Water under the Effect of Submerged Vegetation in the Ivan-kovo Reservoir,  
W85-05158 1810 2H

**ELOFF, J. N.**  
Specific Ultraviolet Absorbance Band of *Microcystis aeruginosa* Toxins,  
W85-04816 1809 5A

**ELORANTA, J.**  
Application of the Finneco Model to Lake Pyhajarvi,  
W85-06298 1812 2H

**ELORANTA, P.**  
Littoral Phytoplankton Productivity and Biomass as Indicators of Differential Nutrient Loading of Lake Tahoe,  
W85-02651 1805 5C

**ELORANTA, P. V.**  
Periphyton Growth and Diatom Community Structure in a Cooling Water Pond,  
W85-01474 1803 5C

Phytoplankton Primary Production in a Eutrophic Cooling Water Pond,  
W85-04063 1808 2H

**ELORANTA, V.**  
Acute Toxicity of Some Chlorinated Phenolic Compounds to *Selenastrum capricornutum* and Phytoplankton,  
W85-04366 1808 5C

**ELORANTA, V. A.**  
Comparison of the *Selenastrum* Bottle Test and the Natural Phytoplankton Assay in Algal Toxicity Tests,  
W85-04615 1809 5A

## AUTHOR INDEX

EPSTEIN, E.

<b>ELRICK, D. E.</b>				
Constant Head Well Permeameter: Effect of Unsaturated Flow, W85-06208	1812	2G		
Effect of Cation Exchange on Calculated Hydrodynamic Dispersion Coefficients, W85-05183	1810	2G		
<b>ELSAESSER, R. F.</b>				
Basic Considerations Influencing the Choice of Materials for Thermal Seawater Desalination Plants, W85-01224	1803	3A		
<b>ELSAYED, M. M.</b>				
Performance of Multiple Effect Diffusion Stills, W85-03975	1808	3A		
Performance of Multiple Effect Diffusion Stills, W85-07094	1812	3A		
<b>ELSEBAI, O.</b>				
Mercury Removal from a Chloralkali Plant in Egypt, W85-05421	1810	5D		
<b>ELSINGER, R. J.</b>				
226Ra and 228Ra in the Mixing Zones of the Pee Dee River-Winyah Bay, Yangtze River and Delaware Bay Estuaries, W85-01912	1804	2L		
<b>ELSNER, H.</b>				
Observations from the Test Operation of an Ion-exchange Facility for Nitrate Removal in Drinking-water Treatment (Erfahrungen aus dem Erprobungsbetrieb einer Ionenaustauscheranlage zur Nitratelimination in der Trinkwasseraufbereitung), W85-01974	1804	5F		
<b>ELWOOD, J. W.</b>				
Phosphorus Uptake by Decomposing Leaf Detritus: Effect of Microbial Biomass and Activity, W85-05670	1810	2H		
<b>ELY, D.</b>				
Climate and the Colorado River: The Limits of Management, W85-02799	1806	4A		
<b>ELY, P. B.</b>				
Flood-Runoff Forecasting with HEC1F, W85-06233	1812	2E		
Probable Maximum Flood Estimation - Eastern United States, W85-01377	1803	2E		
<b>EMAM, N. F.</b>				
Interactions of the Molluscicide 'Baylusicide' with Development of Dinitrogen Fixers and Their N2-ase and Respiratory Activities in Water, W85-04058	1808	5C		
<b>EMELITY, L. A.</b>				
New Continuously Monitored Collection System for Liquid Industrial Wastes, W85-03872	1808	8A		
<b>EMENHISER, T. C.</b>				
Innovative Sampling Techniques for Ground Water Monitoring at Hazardous Waste Sites, W85-03171	1806	7B		
<b>EMERSON, D. G.</b>				
Inventory and Analyses of Information for Flood Plain Management in North Dakota, W85-00617	1802	4A		
<b>EMERSON, S.</b>				
Sediment-Water Exchange in Shallow Water Estuarine Sediments, W85-02473	1805	5B		
<b>EMERY, S. D.</b>				
Limits of Federal Reserved Water Rights in National Forests, W85-02174	1805	6E		
<b>EMMERICH, W. E.</b>				
Fate and Effectiveness of Tebuthiuron Applied to a Rangeland Watershed, W85-01285	1803	5B		
Identification of Water Sources Using Normalized Chemical Ion Balances: A Laboratory Test, W85-06045	1811	2K		
<b>ENDO, G.</b>				
Anaerobic Biological Decomposition of Malodorous Compounds in Kraft Pulping Wastewater, W85-07003	1812	5D		
<b>ENDO, H. K.</b>				
Model for Investigating Mechanical Transport in Fracture Networks, W85-03163	1806	2F		
<b>ENDO, S.</b>				
Circular Currents in the North Basin of Lake Biwa (II) - Comparisons Between Observed Current and Geostrophic Current - (in Japanese), W85-05999	1811	2H		
<b>ENE, L.</b>				
Methods for Evaluation Maximum Acceptable Toxicant Concentration of Some Pesticides Upon the Freshwater Fish. I. Evaluation MATC Values of Fungicide Thiram (Méthode de Determinar a Valorilor Maxime Admisibile (MATC) in Apa a Unor Pesticide Asupra Unor Specii de Pest Dulcicoli. I. Determinarea Valorilor MATC a Fungicidului Tiuram), W85-03531	1807	5C		
<b>ENEY, A. B.</b>				
State Laws Mandating Water Conservation, W85-01806	1804	6E		
<b>ENFIELD, C. G.</b>				
Approximating Pollutant Transport to Ground Water, W85-00349	1801	5B		
Potential Pesticide Contamination of Groundwater from Agricultural Uses, W85-06784	1812	5B		
<b>ENG, G.</b>				
Speciation of Antifoulant Organotin Compounds in Water, W85-04013	1808	5B		
<b>ENGEL, D. W.</b>				
Cadmium-Binding Proteins in the Blue Crab, Callinectes sapidus: Laboratory - Field Comparison, W85-05884	1811	5C		
Trace Metal-Binding Proteins in Marine Molluscs and Crustaceans, W85-04873	1809	5C		
<b>ENGEL, H.</b>				
Floods of the Rhine in April and May 1983 (Die Rhein-Hochwasser vom April und Mai 1983), W85-00968	1802	2E		
<b>ENGEL, R. E.</b>				
Saline Cooling Tower Water for Irrigation in Minnesota: I. Crop and Soil Effects, W85-06615	1812	3C		
Saline Cooling Tower Water for Irrigation in Minnesota: II. Drainage Water Composition, Leaching Fraction, and Effect on Aquifer Quality, W85-06616	1812	3C		
<b>ENGELBRECHT, R. S.</b>				
Field Observations on the Occurrence of New Indicators of Disinfection Efficiency, W85-06224	1812	5A		
Mixing Effects in UV Disinfection, W85-01659	1804	5D		
Removal of New Indicators by Coagulation and Filtration, W85-04833	1809	5F		
<b>ENGELEN, G. B.</b>				
Loosdrecht Lakes Restoration Project, an Introduction, W85-04544	1809	2H		
Loosdrecht Lakes Restoration Project: Hydrology and Physico-Chemical Characteristics of the Lakes, W85-04545	1809	2H		
<b>ENGELHARDT, H.</b>				
Glacier Surge Mechanism: 1982-1983 Surge of Variegated Glacier, Alaska, W85-04472	1809	2C		
Water Quality Management in the Chemical Industry - BASF'S Ludwigshafen Complex as an Example - Investigations, Design, Operation, W85-04008	1808	5D		
<b>ENGELMANN, A.</b>				
Economical Water Use in the Zielitz Potash Plant (Wirtschaftliche Wassernutzung im VEB Kalibetrieb Zielitz), W85-03467	1807	3E		
<b>ENGEMOEN, M.</b>				
Utility Approach to Comprehensive Stormwater Management, W85-06125	1811	4A		
<b>ENGESSET, J.</b>				
Septic Tank Design, W85-05202	1810	5D		
<b>ENGLISH, J.</b>				
Role of Immunoassay in the Analysis of Micro-contaminants in Water Samples, W85-05811	1810	5A		
<b>ENGLISH, P.</b>				
Heavy Snow Loads Plague Reservoir Roof, W85-05482	1810	8A		
<b>ENGSTROM, D. R.</b>				
Lake Development in the Boreal Peatlands of Southeastern Labrador, Canada, W85-03842	1808	2H		
<b>ENJALBERT, M.</b>				
Mathematical Model of a Mechanical-Vapor Compression Evaporator. Application to the Production of Freshwater by Seawater Desalination; Part II - Numerical Exploitation, W85-00250	1801	3A		
<b>ENNIS, G. L.</b>				
Recent Trophic Changes in Kootenay Lake, British Columbia, as Recorded by Fossil Diatoms, W85-00249	1801	2H		
<b>EPIFANOV, A. P.</b>				
Seepage in the Foundation of the Krasnoyarsk Dam, W85-00488	1801	8A		
<b>EPP, D. J.</b>				
Agricultural Nonpoint Pollution Control: Voluntary or Mandatory, W85-05961	1811	5G		
Importance of Sample Discrimination in Using the Travel Cost Method to Estimate the Benefits of Improved Water Quality, W85-04753	1809	6B		
<b>EPPLER, A.</b>				
Reservoir Murg in Gaggenau (Murgstau Gaggenau), W85-03268	1807	8A		
<b>EPSTEIN, E.</b>				
Sludge Dewatering and Compost Economics, W85-02991	1806	5E		

**AUTHOR INDEX**

**ERB, F.**

**ERB, F.** Relation between Toxicity and Free Forms of Some Trace Metals (Relation entre Toxicite et Forme Libres de Quelques Metaux Traces), W85-05976 1811 5C

**ERCHIKOVSKII, R. G.** Prospects of Using Automated Management Systems in Earth-Dam Construction, W85-05022 1810 8A

**ERDREICH, L. S.** Comparing Epidemiologic Studies of Ingested Asbestos for Use in Risk Assessment, W85-02710 1806 5C

**ERICKSON, G. P.** Measurement of Real Time Turbine Efficiency, W85-02678 1805 8C

**ERICKSON, J.** Inventory of Court Creek Watershed Characteristics That May Relate to Water Quality in the Watershed, W85-06331 1812 2A

**ERICKSON, M.** Personal Exposure to Volatile Organic Compounds; I. Direct Measurements in Breathing-Zone Air, Drinking Water, Food, and Exhaled Breath, W85-03041 1806 5A

**ERIE, L. J.** Consumptive Use of Water by Major Crops in the Southwestern United States, W85-05346 1810 2I

**ERIKSSON, M. O. G.** Acidification of Lakes: Effects on Waterbirds in Sweden, W85-03200 1806 5C

**ERISKOVSKII, A. P.** Evaluation of the Effect of Lake Balkhash Level and Ili River Runoff on Stock and Catches of Commercial Fish Species, W85-04127 1808 2H

**ERKOLA, P.** World's Longest Tunnel, W85-02003 1804 8A

**ERLER, T. G.** Groundwater Contamination - Part 3: Remedial Action, W85-06453 1812 5G

**ERMAN, D. C.** Response of Stream Macroinvertebrates to Substrate Size and Heterogeneity, W85-01007 1802 2H

**ERMAN, N. A.** Response of Stream Macroinvertebrates to Substrate Size and Heterogeneity, W85-01007 1802 2H

**ERNESTOVA, L. S.** Redox State and Seasonal Toxicity of Natural Water, W85-04363 1808 5B

**ERSKINE, J. M.** Impact of the Drought in Natal/KwaZulu, W85-00214 1801 2B

**ERWIN, F.** Concurrent Development of an Industrial Waste Pretreatment Program and Residual Solids Management Plan, W85-02572 1805 5D

**ESCH, G. W.** Effect of Effluent from a Nitrogen Fertilizer Factory and a Pulp Mill on the Distribution and Abundance of *Aeromonas hydrophila* in Albemarle Sound, North Carolina, W85-00096 1801 5C

**ESCHNER, A.** Resources of the Tug Hill Region, W85-00044 1801 6D

**ESCHNER, T. R.** Interpretation of Grain-Size Distributions from Measured Sediment Data, Platte River, Nebraska, W85-03214 1806 2J

**ESCOLAR, D.** Heavy Metals in Recent Sediments from the Bay of Cadiz, Spain, W85-02764 1806 5B

**ESHLEMAN, K. N.** Neutralization of Acid Deposition by Nitrate Retention at Bickford Watershed, Massachusetts, W85-03572 1807 5C

**ESHO, R. T.** Primary Productivity of the River Ely, South Wales, U.K., W85-00996 1802 5C

Seasonal Variations of Dissolved Organic Matter in the River Ely, South Wales, U.K., W85-05612 1810 5C

Studies on the Bottom Sediments and Epipelagic Algae of the River Ely, South Wales, U.K., W85-05611 1810 5C

**ESKLILSSON, H.** Potentiometric Stripping Analysis for Manganese(II) in Natural Waters, W85-02798 1806 5A

**ESSERY, C. L.** Infiltration Measurements in a Small Lowland Catchment, W85-03090 1806 2E

**ESTABLIER, R.** Heavy Metals in Recent Sediments from the Bay of Cadiz, Spain, W85-02764 1806 5B

**ESTABROOK, G. F.** Comparison of Heavy Metals in Aquatic Plants on Charity Island, Saginaw Bay, Lake Huron, U.S.A., with Plants along the Shoreline of Saginaw Bay, W85-06740 1812 5B

**ESTABROOK, R. H.** Lakewide Odours in Ontario and New Hampshire Caused by Chrysochromulina breviturrita Nich. (Prymnesiophyceae), W85-01467 1803 5B

**ESTEP, K. W.** Influence of the Surface Microlayer on Nutrients, Chlorophyll and Algal Diversity of a Small Eutrophic Bog Pond, W85-05738 1810 2H

Retrieval of Material from the Surface Microlayer with Screen and Plate Samplers and its Implications for Partitioning of Material within the Microlayer, W85-04895 1809 5A

**ESTERBY, S. R.** Coliform Concentrations in Lake Erie - 1966 to 1970, W85-00419 1801 5A

Dissolved Oxygen Concentrations in Lake Erie (U.S.A.-Canada); I. Study of Spatial and Temporal Variability Using Cluster and Regression Analysis, W85-01609 1803 2H

**ESTERHUYSEN, K.** Management Proposals to Counter Undesirable Sediment Accumulation in the Keurbooms Estuary, W85-01180 1803 4D

**ESTES, P. S.** Uptake and Phytotoxicity of Soil-Sorbed Atrazine for the Submerged Aquatic Plant, *Potamogeton perfoliatus* L., W85-02205 1805 5C

**ESTEVES, F. A.** Contribution of Two Aquatic Macrophytes to the Nutrient Budget of Lobo Reservoir, Sao Paulo, Brazil, W85-05649 1810 2H

Levels of Phosphate, Calcium, Magnesium and Organic Matter in the Sediments of Some Brazilian Reservoirs and Implications for the Metabolism of the Ecosystems, W85-00870 1802 2H

**ETCHEBER, H.** Variation of Organic Matter Extracted from Particles along the Gironde Estuary (France), W85-04372 1808 2L

**ETEMADI, B.** Convergent Flow Pattern at an Abrupt Contraction, W85-07101 1812 2E

**ETTE, A. I. I.** Comparative Studies of NO<sub>3</sub>- Concentrations in Some Tropical Rains, W85-04506 1809 5B

**ETTEMA, R.** Scour at Cylindrical Bridge Piers in Armored Beds, W85-06042 1811 2J

Wedge-Wire Intake Screens for Shallow Sand-Bed River, W85-02268 1805 8A

**ETTINGER, W. H.** Evaluation of a Community-Based Index Using Benthic Indicator-Organisms for Classifying Stream Quality, W85-07046 1812 5A

**ETZEL, J. E.** Treatment of Metal Plating Wastewater with a Disposable Ion Exchange Material, W85-05243 1810 5D

**EUGSTER, H. P.** Geochemistry of Great Salt Lake, Utah I: Hydrochemistry Since 1850, W85-05761 1810 2K

**EVANS, D. W.** Distribution of Dissolved Organic Carbon and Metal-Binding Capacity Among Ultrafilterable Fractions Isolated from Selected Surface Waters of the Southeastern United States, W85-03979 1808 2K

**EVANS, E. P.** Pressure Transients Caused by Slams and Bursts in Water Pipelines, W85-06576 1812 8B

**EVANS, G. L.** Phytoplankton Limitation by Phosphorus and Zooplankton Grazing in an Acidic Adirondack Lake, W85-02243 1805 5C

**EVANS, H. E.** Comparison of Lead and Zinc Sediment Profiles from Cores Taken by Diver and a Gravity Corer, W85-01011 1802 5A

**EVANS, L. S.** Botanical Aspects of Acidic Precipitation, W85-04176 1808 5C

Frequency Distributions for Durations and Volumes of Rainfalls in the Eastern United States in Relation to Acidic Precipitation, W85-02926 1806 2B

## AUTHOR INDEX

**FAHIM, M. A.**

**EVANS, M. S.**  
Benthic and Epibenthic (Microcrustaceans, Macrofauna) Community Structure in the Vicinity of a Power Plant, Southeastern Lake Michigan,  
W85-02641 1805 5C

Intakes as Sampling Locations for Investigating Long-Term Trends in Zooplankton Populations, W85-03311 1807 7B

**EVANS, R. B.**  
Assessing Hazardous Waste Problems, W85-03054 1806 5A

Spatial Mapping of Conductive Ground Water Contamination with Electromagnetic Induction, W85-03177 1806 5A

**EVANS, R. D.**  
Historical Changes in Anthropogenic Lead Fall-out in Southern Ontario, Canada, W85-02063 1804 5B

Long Distance Transport of Anthropogenic Lead as Measured by Lake Sediments, W85-05691 1810 5B

Measurement of Operationally Defined Lead Fractions in Sediments from Several Lakes, W85-02632 1805 5B

Whole-Lake Lead Burdens in Sediments of Lakes in Southern Ontario, Canada, W85-02062 1804 5B

**EVANS, R. G.**  
Leaf Water Potentials for Management of High Frequency Irrigation on Apples, W85-01190 1803 3F

Optimizing Salinity Control Strategies for the Upper Colorado River Basin, W85-06960 1812 5C

**EVANS, R. L.**  
Aeration-Destratification of Lake Eureka: Second Year Operation, W85-06344 1812 5G

Evaluation of Wastes from the East St. Louis Water Treatment Plant and Their Impact on the Mississippi River, W85-06343 1812 5C

Inventory of Court Creek Watershed Characteristics That May Relate to Water Quality in the Watershed, W85-06331 1812 2A

Water Quality and Watershed Land Used of Johnson Sauk Trail Lake, W85-05722 1810 6G

**EVANS, R. O.**  
Subsurface Drainage Water Quality from Land Application of Swine Lagoon Effluent, W85-01196 1803 5E

Swine Lagoon Effluent Applied to 'Coastal' Bermudagrass: III. Irrigation and Rainfall Runoff, W85-06613 1812 5D

**EVANS, R. R.**  
Dorr-Oliver's Fixed-Film, Suspended-Growth Anaerobic Systems for Industrial Wastewater Treatment and Energy Recovery, W85-05283 1810 5D

**EVANS, S. K.**  
Removal of Bacteria from Water by Adsorption to Magnetite, W85-02909 1806 5F

**EVANS, T. M.**  
Aeromonas sobria in Chlorinated Drinking Water Supplies, W85-02187 1805 5F

**EVANS, W. A.**  
Seasonal Abundances of the Psammic Rotifers of a Physically Controlled Stream, W85-01008 1802 2H

**EVERARD, M.**  
Flux of Lead in Submerged Plants and its Relevance to a Freshwater System, W85-05745 1810 5B

Particulates and the Cycling of Lead in Ullswater, Cumbria, W85-06417 1812 5B

Transfer of Lead by Freshwater Snails in Ullswater, Cumbria, W85-02747 1806 5B

**EVERETT, L. G.**  
Vadose Zone Monitoring Concepts for Hazardous Waste Sites, W85-00314 1801 5A

**EVERS, E. H. G.**  
Environmental Fate and Monitoring of Organic Micropollutants, W85-03284 1807 5A

**EVERS, P. C.**  
Ground Water Contamination of Two Production Wells: A Case History, W85-00363 1801 5F

**EVERTS, C. H.**  
Method to Forecast Sedimentation Rates Resulting from the Settlement of Suspended Solids within Semiclosed Harbors, W85-06929 1812 2J

**EVETT, S. R.**  
Effect of Slope and Rainfall Intensity on Erosion from Sodium Dispersed, Compacted Earth Microcatchments, W85-05191 1810 3B

**EVUTSHENKO, Z. S.**  
Metal-Binding Proteins and Activity of Alkaline Phosphatase in the Oyster *Crassostrea gigas* in Anthropogenically Polluted Environment (Metalsvazyayushchiye Belki i Aktivnost' Shchelochnoi Fosfatazy v Gigantskoi Ustristre, Obiyashchey v Usloviyyakh Antropogennogo Zaryazneniya), W85-02719 1806 5C

**EWALD, M.**  
Variation of Organic Matter Extracted from Particles along the Gironde Estuary (France), W85-04372 1808 2L

**EWEL, J. J.**  
Leaching from a Tropical Adept During Big Storms: A Comparison of Three Methods, W85-06209 1812 2G

**EWEL, K. C.**  
Effects of Wastewater Disposal on Growth Rates of Cypress Trees, W85-03859 1808 5B

Effects of White Amur (*Ctenopharyngodon idella*) on a Florida Lake: A Model, W85-01306 1803 5G

**EXNER, M. E.**  
Ground-Water Contamination and Well Construction in Southeast Nebraska, W85-04637 1809 5B

**EYDEN, B.**  
Commissioning Pumps and Pump-Turbines, W85-02674 1805 8C

**EYLES, G. O.**  
Distribution and Severity of Tunnel Gully Erosion in New Zealand, W85-02412 1805 2J

**EYRE, P. R.**  
Effects of Pumpage, Irrigation Return, and Regional Ground-Water Flow on the Water Quality at Waiauwa Water Tunnel, Oahu, Hawaii, W85-00850 1802 5G

Simulation of Ground-Water Flow in Southeastern Oahu, Hawaii, W85-06821 1812 2F

**EZHOOVA, L. N.**  
Optimization of the Hydrobotanic Method of Wastewater Treatment to Remove Aromatic Amines by Mathematical Experimental Design Methods, W85-04140 1808 5D

**EZHOOVA, M. P.**  
Isotope Investigations of the Conditions of Formation of Mineral and Thermal Waters in Some Caucasian Regions, W85-05152 1810 2F

**FABIANI, L.**  
Application of a Simplified Method for Recovery of *Yersinia enterocolitica* from Surface Waters, W85-07135 1812 5A

**FABRE, M.**  
Occurrence of DNA in River Sediment: Its Meaning and Relations With Benthos Respiration, Organic Load and Macroinvertebrates Biomass, W85-04699 1809 5C

**FABRIKANT, R.**  
Effect of Sewage Effluent on the Population Density and Size of the Clam *Parvilucina tenuisculpta*, W85-02325 1805 5C

**FABRIS, G. J.**  
Uptake of Cadmium by the Seagrass *Heterozoster tasmanica* from Corio Bay and Western Port, Victoria, W85-00784 1802 5B

**FADALI, O. A.**  
Colour Removal from Textile Effluents Using Hardwood Sawdust as an Absorbent, W85-06659 1812 5D

**FADEEV, A. B.**  
Strength of a Jointed Rock Mass, W85-06596 1812 8E

**FAGA, D. A.**  
Landspreading of Sludge in New York State, W85-05391 1810 5E

**FAGBEMI, T.**  
Diurnal Variations of Physico-Chemical Factors and Planktonic Organisms in Jos Plateau (West Africa) Water Reservoir, W85-00544 1802 2H

**FAGERSTEDT, K.**  
Comparisons of Flooding Tolerance in Four Barley Cultivars (*Hordeum vulgare*) Grown in Finland, and in *Carex rostrata*, W85-05874 1811 2I

**FAGO, D.**  
Distribution and Relative Abundance of Fishes in Wisconsin: III. Red River Basin, W85-06909 1812 2H

**FAGUET, D.**  
Behaviour of Metallic and Radioactive Elements in Lagoonal Sediments: the Example of the Canet-St Nazaire Pond (Mediterranean Coast), W85-00914 1802 2L

**FAHEY, T. J.**  
Water and Nutrient Outflow from Contrasting Lodgepole Pine Forests in Wyoming, W85-04882 1809 2I

**FAHIM, M. A.**  
Enhanced Activated Sludge Waste Treatment by the Addition of Adsorbents, W85-03049 1806 5D

Removal of Fine Oily Hazes from Wastewater Using Deep Fibrous Bed Coalescer, W85-01160 1803 5D

## AUTHOR INDEX

**FAIL, J. JR.**

**FAIL, J. JR.**  
Riparian Forests as Nutrient Filters in Agricultural Watersheds,  
W85-00127 1801 2I

**FAILLAT, J. P.**  
Use of Dissolved Oxygen as Indicator of Hydrological Structures: Application to Karstic Aquifers (Utilisation de l'oxygene dissous comme indicateur de structures hydrogeologiques exemple d'application aux aquifères karstiques),  
W85-00948 1802 2F

**FAIR, J. L.**  
Statistical Considerations in the Evaluation of Chronic Aquatic Toxicity Studies,  
W85-03971 1808 5A

**FAIRCHILD, G. W.**  
Artificial Substrates which Release Nutrients: Effects on Periphyton and Invertebrate Succession,  
W85-02479 1805 5C

**FAIRFAX, S. K.**  
Federalism and the Wild and Scenic Rivers Act: Now You See It, Now You Don't,  
W85-04375 1808 6E

Groundwater and Intergovernmental Relations in the Southern San Joaquin Valley of California: What are All These Cooks Doing to the Broth,  
W85-02184 1805 4B

**FAKHRAEI, S. H.**  
Price Rigidity and Quantity Rationing Rules Under Stochastic Water Supply,  
W85-01339 1803 3D

**FALANDYSZ, J.**  
Chlorinated Hydrocarbons in Fish-Eating Birds Wintering in the Gdansk Bay, 1981-82 and 1982-83,  
W85-02762 1806 5B

**FALCON, M.**  
Secondary Flow in Curved Open Channels,  
W85-05831 1810 2E

**FALCON, R. P.**  
Design and Construction of the Agus IV Power Cavern, Part Two: Design and Construction,  
W85-01552 1803 8A

**FALCONE, J. P.**  
MIDUSS - A Design Program for Storm Water Sewerage,  
W85-04047 1808 8A

**FALCONER, R. A.**  
Mathematical Model Study of the Flushing Characteristics of a Shallow Tidal Bay,  
W85-03052 1806 2L

Mathematical Modelling of Tidal Currents in the Humber Estuary,  
W85-05516 1810 2L

Model Study of Jet-Induced Circulation and Mixing in a Reservoir,  
W85-01523 1803 8B

Residual Currents in Port Talbot Harbour; A Mathematical Model Study,  
W85-06578 1812 2L

Temperature Distributions in Tidal Flow Field,  
W85-03804 1808 2L

**FALCONI, J.**  
Role of Forestry in Dry Africa,  
W85-05467 1810 4D

**FALDAGER, I.**  
Experiments with Testing of Septic Tanks,  
W85-05203 1810 5D

**FALKENMARK, M.**  
New Ecological Approach to the Water Cycle: Ticket to the Future,  
W85-01704 1804 6A

Water - The Silent Messenger between Cause and Effect in Environmental Problems,  
W85-03028 1806 5B

**FALKNER, G.**  
Phosphate Uptake by Blue Green Algae in vitro and in a Lake During an Algal Bloom: Useful Application of a Force-Flow Relationship,  
W85-01015 1802 2H

**FALKOWSKI, S. J.**  
Seasonal Variation of Arsenic Concentration in Well Water in Lane County, Oregon,  
W85-02414 1805 5B

**FAN, L. S.**  
Mechanism of Semifluidized Bed Bioreactor for Biological Phenol Degradation,  
W85-02106 1804 5D

**FANG, J.**  
Karst Development and the Distribution of Karst Drainage Systems in Dejiang, Guizhou Province, China,  
W85-00001 1801 2G

**FANG, L.-S.**  
Foreign Elements in a Clam Shell: A Clue to the History of Marine Pollution Events,  
W85-02541 1805 5A

**FANG, Y.-Z.**  
Indirect Determination of Trace Phenol in Water by Atomic-Absorption Spectrometry,  
W85-06251 1812 5A

**FANG, Z.**  
Determination of Trace Amounts of Heavy Metals in Waters by a Flow-Injection System Including Ion-Exchange Preconcentration and Flame Atomic Absorption Spectrometric Detection,  
W85-04653 1809 5A

**FANGMEIER, D. D.**  
Dimensionless Runoff Curves for Irrigation Borders,  
W85-01510 1803 3F

**FANJUL, L.**  
Effects of Water Stress on Internal Water Relations of Apple Leaves,  
W85-06103 1811 2I

**FANNING, D.**  
Erosion and Sedimentation Chronology of Three Watersheds in Maryland,  
W85-01835 1804 2J

**FANUKO, N.**  
Influence of Experimental Sewage Pollution on Lagoon Phytoplankton,  
W85-00202 1801 5C

**FAPOHUNDA, H. O.**  
Studies on a Selected Industrial Effluent and the Receiving Stream,  
W85-03027 1806 5B

Studies on a Selected Industrial Effluent and the Receiving Stream,  
W85-05031 1810 5D

Water Use-Yield Relations for Cowpea and Maize,  
W85-06281 1812 3F

**FARAG, H.**  
Uptake and Accumulation of Selected Herbicides by the Freshwater Alga *Scenedesmus*,  
W85-03224 1807 5C

**FARAH, S. M.**  
Calibration of Soil Surface Neutron Moisture Meter,  
W85-03096 1806 2G

**FARBER, J. M.**  
Improved Recovery of Fecal Coliforms from the Ottawa River by Membrane Filters in the Presence of Food Debris,  
W85-05741 1810 5A

**FARBER, K.**  
Stochastic Model of Suspended Solid Dispersion,  
W85-04395 1808 2I

**FARELL, C.**  
Characteristics and Modeling of Intake Vortices,  
W85-07100 1812 8B

**FARKAS, G.Y.**  
Fluoride Content of Drinking Water and the Menarcheal Age,  
W85-02475 1805 5C

**FARMAKOVSKII, S. V.**  
Mechanical Equipment of Gate Chambers of High-Head Spillways,  
W85-00484 1801 8A

**FARMANFARMAIAN, A.**  
Inhibition of Essential Amino Acid Absorption in Marine Fishes by Mercury,  
W85-05887 1811 5C

**FARMER, D. M.**  
Effects of Vertical Mixing on Photosynthetic Responses,  
W85-00931 1802 2H

**FARMER, W. J.**  
Nonsingle-Valued Adsorption-Desorption of Bromacil and Diquat by Freshwater Sediments,  
W85-01123 1803 5B

**FARQUHAR, G. J.**  
Deterministic Linear Programming Model for Acid Rain Abatement,  
W85-06017 1811 5G

**FARR, I. S.**  
Influence of Within-Stream Disturbance on Dissolved Nutrient Levels During Spates,  
W85-02089 1804 2E

Reliability of Suspended Load Estimates in Chalk Streams,  
W85-04054 1808 2J

**FARRAH, H.**  
Interaction of Clays with Dilute Fluoride Solutions,  
W85-02928 1806 2K

**FARRAH, S. R.**  
Modified Membrane-Filter Procedure for Concentration of Enteroviruses From Tap Water,  
W85-05054 1810 5A

**FARRELL, M. A.**  
Comparative Study of Respiration Rates of Some Aquatic Oligochaetes in Relation to Sublethal Stress,  
W85-04905 1809 5C

**FARRELL, M. P.**  
Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 5, Fish Studies: Pilot Report,  
W85-06943 1812 8I

Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 7: Management of Ecological Data in Large River Ecosystems,  
W85-06899 1812 6G

**FARRELL, T. P.**  
Studies of the Hydrobiology of a Tropical Lake in North-western Queensland. III. Growth, Chemical Composition and Potential for Harvesting of the Aquatic Vegetation,  
W85-03496 1807 2H

## AUTHOR INDEX

<b>FASEHUM, F. E.</b>			<b>FERGUSON, J.</b>
Influence of Soil Drought and Partial Waterlogging on Water Relations of <i>Gmelina arborea</i> Seedlings, W85-06858	1812 2I		
<b>FASIDI, I. O.</b>			
Influence of Soil Drought and Partial Waterlogging on Water Relations of <i>Gmelina arborea</i> Seedlings, W85-06858	1812 2I		
<b>FATHALAH, K.</b>			
Performance of Multiple Effect Diffusion Stills, W85-03975	1808 3A		
Performance of Multiple Effect Diffusion Stills, W85-07094	1812 3A		
<b>FATHULLA, F.</b>			
Pesticides in Groundwater Beneath the Central Sand Plain of Wisconsin, W85-02025	1804 5B		
<b>FATT, C. S.</b>			
Sediment Problems and Their Management in Peninsular Malaysia, W85-06541	1812 4D		
<b>FAUL, H.</b>			
Organic Activators and Inhibitors of Algal Growth in Water of a Eutrophic Shallow Lake, W85-04055	1808 2H		
<b>FAUP, G. M.</b>			
Biological Phosphorus Removal: Study of the Main Parameters, W85-03645	1807 5D		
Study Cases of Operative Conditions of Municipal Treatment by Lagooning (Etude des Conditions de Fonctionnement et d'Exploitation de Quelques Cas Concrets de Traitement d'Eaux Résiduaires Urbaines par Lagunage), W85-01976	1804 5D		
<b>FAUSEY, N. R.</b>			
Drainage-Tillage Interaction on Clermont Soil, W85-01184	1803 2G		
<b>FAUST, C. R.</b>			
Ground-Water Modeling, W85-03531	1810 2F		
Transport of Immiscible Fluids within and below the Unsaturated Zone: A Numerical Model, W85-06513	1812 5B		
<b>FAUST, K. M.</b>			
Experimental Investigation of Intrusive Gravity Currents Entering Stably Stratified Fluids, W85-07028	1812 2H		
<b>FAUST, M. A.</b>			
Distribution and Activity of Bacteria in the Headwaters of the Rhode River Estuary, Maryland, USA, W85-03237	1807 2L		
<b>FAUST, N. L.</b>			
Fracture Trace Analysis to Increase the Probability of Locating Groundwater for Murray County, Georgia, W85-06313	1812 2F		
<b>FAUST, R. J.</b>			
Problems of Rising Ground-Water Levels in Urban Areas with Special Reference to the Louisville, Kentucky Area, W85-00027	1801 4B		
<b>FAVARGER, P.-Y.</b>			
Climatic and Anthropogenic Effects on the Sedimentation and Geochemistry of Lakes Bourget, Annecy and Leman, W85-02102	1804 2H		
<b>FAVRETO, L.</b>			
Determination of Cadmium and Lead in Natural Waters, W85-03278	1807 5A		
<b>FAVRETO, L. G.</b>			
Determination of Cadmium and Lead in Natural Waters, W85-03278	1807 5A		
<b>FAY, R. R.</b>			
Application of the Biota Ocean Monitor System to a Study of the Impacts of Ocean Dumping of Dredged Material in the New York Bight, W85-00051	1801 5C		
<b>FAYARD, L. D.</b>			
Geohydrologic Reconnaissance of Drainage Wells in Florida, W85-03959	1808 2F		
<b>FAZEKAS, A.</b>			
Fluoride Content of Drinking Water and the Menarcheal Age, W85-02475	1805 5C		
<b>FEDER, G. L.</b>			
Ecological Effect of Acid Conditions and Precipitation of Hydrous Metal Oxides in a Rocky Mountain Stream, W85-04389	1808 2H		
<b>FEDERER, C. A.</b>			
Some Sensitivity Results for Corn Canopy Temperature and its Spatial Variation Induced by Soil Hydraulic Heterogeneity, W85-06193	1812 2I		
<b>FEDOSYUK, A. F.</b>			
Optimization of the Filling and Drawdown Regimes of a Regulating Reservoir of the Kuban' Cascade, W85-00485	1801 3B		
<b>FEDRA, K.</b>			
Interactive Computer Technology for Planning and Policy Modeling, W85-05491	1810 6A		
Interactive Water Resources Modeling and Model Use: An Overview, W85-05489	1810 6B		
Modular Interactive Simulation System for Eutrophication and Regional Development, W85-05494	1810 5C		
<b>FEENELEY, J. C.</b>			
Legionella anisa: A New Species of Legionella Isolated From Potable Waters and a Cooling Tower, W85-05046	1810 5B		
<b>FEENELEY, T. J. III</b>			
Fate of Contaminants During Treatment of H-Coal Process Wastewaters, W85-04878	1809 5D		
<b>FEINERMAN, E.</b>			
Salinity and Uniformity of Water Infiltration as Factors in Yield and Economically Optimal Water Application, W85-00750	1802 3C		
<b>FEKETE, E.</b>			
Study on the Heavy Metals Having Effect on the Water Biocoenoses in the Backwaters at Alpar and Lakitelek, W85-03112	1806 5C		
<b>FELDT, L. E.</b>			
Growth Responses of River and Lake Phytoplankton Populations in Lake Michigan Water, W85-02638	1805 2H		
<b>FELHABER, T.</b>			
Acute Toxicity of Selected Substituted Phenols, Benzenes and Benzoic Acid Esters to Fathead Minnows <i>Pimephales promelas</i> , W85-02751	1806 5C		
<b>FELL, G. S.</b>			
Suppression of Interferences in the Determination of Lead in Natural and Drinking Waters by			
<b>FELTON, J. S.</b>			
Hepatic Mixed-Function Oxidases in California Flatfishes are Increased in Contaminated Environments and by Oil and PCB Ingestion, W85-01894	1804 5A		
<b>FELTS, P. A.</b>			
Interactions of Temperature and Sublethal Environmental Copper Exposure on the Energy Metabolism of Bluegill, <i>Lepomis macrochirus</i> Rufflesque, W85-03003	1806 5C		
<b>FENDINGER, N. J.</b>			
Chemical Study of the Intersitial Water Dissolved Organic Matter and Gases in Lake Erie, Cleveland Harbor, and Hamilton Harbour Bottom Sediments--Composition and Fluxes to Overlying Waters, W85-01814	1804 5B		
<b>FENN, C. R.</b>			
Box-Jenkins Transfer Function Models Applied to Suspended Sediment Concentration-Discharge Relationships in a Proglacial Stream, W85-00112	1801 2J		
<b>FENN, D. D.</b>			
Probable Maximum Precipitation Estimates - United States Between the Continental Divide and the 103rd Meridian, W85-04226	1808 2B		
<b>FENSTER, C. R.</b>			
Soil Physical Characteristics of Reduced Tillage in a Wheat-Fallow System, W85-06078	1811 2G		
<b>FENTON, G. G.</b>			
Simple, More Accurate Criterion For Economic Evaluation of Desalination Projects, W85-01220	1803 3A		
<b>FENTON, T. E.</b>			
Determination of Crop Production Loss Due to Inadequate Drainage in a Large Watershed, W85-02987	1806 6B		
<b>FERARD, J. F.</b>			
Comparison of the Microtox and Daphnia Test for the Evaluation of Industrial Effluents (Comparaison des Tests Microtox et Daphnie pour l'Evaluation de la Toxicite Aigue d'Effluents Industriels), W85-00907	1802 5A		
<b>FERDELMAN, T.</b>			
Elemental Residence Times in Acton Lake, Ohio, W85-02241	1805 2H		
<b>FERELL, L.</b>			
Case History of Industrial Pretreatment in Columbus, Ohio, W85-03331	1807 5D		
<b>FERERES, E.</b>			
Variability in Adaptive Mechanisms to Water Deficits in Annual and Perennial Crop Plants, W85-02332	1805 2I		
<b>FERGUSON, B. K.</b>			
Land Environments of Water Resource Management, W85-06695	1812 2A		
Regional Priorities for Abandoned Mine Reclamation in the Blacklick Creek Watershed, Pennsylvania, W85-06607	1812 5G		
<b>FERGUSON, J.</b>			
Role of Facultative Anaerobic Micro-organisms in Anaerobic Biodegradation of Chlorophenols, W85-07022	1812 5D		

## AUTHOR INDEX

**FERGUSON, J. F.**

**FERGUSON, J. F.**  
Studies of Anaerobic Treatment of Sulfite Process Wastes,  
W85-07008 1812 5D

**FERGUSON, V. B.**  
Tastes and Odors: The Flavor Profile Method,  
W85-06582 1812 5F

**FERNANDEZ, D. F.**  
Uribante-Doradas Hydro Development in Venezuela,  
W85-04783 1809 8A

**FERNANDEZ, E.**  
Limnology of the Lago Grande de Estanya (Huesca) (Limnologia del Lago Grande de Estanya (Huesca)),  
W85-05746 1810 2H

**FERNANDEZ, J. A.**  
Rapid and Sensitive Automated Determination of Phosphate in Natural Waters,  
W85-05622 1810 5A

**FERNANDEZ, M. JR.**  
Hydrogeology and Water Quality of Six Landfill Sites in Hillsborough County, Florida,  
W85-01946 1804 5B

Municipal Solid-Waste Disposal and Ground-Water Quality in a Coastal Environment, West-Central Florida,  
W85-01789 1804 5E

**FERNANDEZ, O. A.**  
Effect of Gibberellic Acid on the Buoyancy of Spirodesma intermedia W. Koch,  
W85-05610 1810 5G

**FERNANDEZ, R. B.**  
Recent Observations and New Developments in the Calibration of Open Channel Wastewater Monitors,  
W85-03871 1808 7B

**FERNS, P. N.**  
Minimizing the Possible Effects of a Tidal Power Barrage on the Shorebird Populations of the Severn Estuary,  
W85-01158 1803 6G

**FERRAIOLI, G.**  
Influence of Process Variables on the Modelling and Design of a Rotating Biological Surface,  
W85-07116 1812 5D

**FERRAN, J.**  
Role of the Photoperiod on Drought Adaptation of Cotton (Role de la Photoperiode dans l'Adaptation a la Secheresse des Cotonniers),  
W85-02336 1805 2I

**FERRANDINO, F. J.**  
Enhanced Longitudinal Mixing in a Lake Caused by Inflow-Induced Circulation,  
W85-05501 1810 2H

**FERRARA, R. A.**  
Modeling Sediment and Water Column Interactions for Hydrophobic Pollutants. Parameter Discrimination and Model Response to Input Uncertainty,  
W85-02437 1805 5B

Multicomponent Model of Phosphorus Dynamics in Reservoirs,  
W85-03144 1806 2H

**FERRARIO, J. B.**  
Volatile Organic Pollutants in Biota and Sediments of Lake Pontchartrain,  
W85-04476 1809 5A

**FERREN, L. A.**  
Phosphorus Uptake by Decomposing Leaf Detritus: Effect of Microbial Biomass and Activity,  
W85-05670 1810 2H

**FERRERO, R.**  
Direct Acquisition of Rainfall Data on Site (Saisie Directe Sur Le Site de l'information Pluviographique),  
W85-00388 1801 7B

**FERRICK, M. G.**  
Analysis of River Wave Types,  
W85-05500 1810 2E

**FERRIGNO, C. F.**  
Data Management System for Areal Interpretive Data for the High Plains in Parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming,  
W85-00593 1802 7C

**FERRONI, G. D.**  
Unreliability of the Kinetic Approach to Measuring Bacterial Mineralization Activities at Low *in situ* Temperatures in an Acidic Aquatic Environment,  
W85-02440 1805 5A

**FERRONSKII, V. I.**  
Tritium Content in USSR Surface Waters in 1979-1980,  
W85-04108 1808 2K

**FERRY, M.**  
Study Cases of Operative Conditions of Municipal Treatment by Lagooning (Etude des Conditions de Fonctionnement et d'Exploitation de Quelques Cas Concrets de Traitement d'Eaux Residuaires Urbaines par Lagunage),  
W85-01976 1804 5D

**FERSTL, U.**  
Determination of Inorganic Carbon (TIC) in Small Samples with the Use of Micro-computers (Einsatz von Micro-Computern bei der Bestimmung von anorganischem Kohlenstoff (TIC) in geringen Wassermengen),  
W85-02741 1806 5A

**FESSENDEN-RADEN, J.**  
Nitrate Contamination: Public Awareness,  
W85-04828 1809 5F

**FESTA, J. F.**  
Numerical Simulation of Phytoplankton Productivity in Partially Mixed Estuaries,  
W85-03636 1807 2L

**FESTY, B.**  
Soil Amoebas as Biological Markers to Estimate the Quality of Swimming Pool Waters,  
W85-07126 1812 5A

**FEYEN, J.**  
Application of a Cell Model to the Bellebeek Watershed,  
W85-06638 1812 2E

Numerical Analysis of Irrigation Treatments of Barley with Respect to Drainage Losses and Crop Response,  
W85-06091 1811 3F

**FIANDT, J. T.**  
Toxicity of Ammonia to Early Life Stages of the Green Sunfish *Lipomis cyanellus*,  
W85-03045 1806 5C

**FICHTNER, N.**  
Method for Nitrate Elimination in Waters (Verfahren zur Nitrateliminierung im Gewässer),  
W85-06264 1812 5G

**FIELD, J. A.**  
Comparison of Field- and Laboratory-Measured and Predicted Hydraulic Properties of a Soil with Macropores,  
W85-04617 1809 2G

Effects of Anaerobically Digested Poultry Manure on Soil Phosphorus Adsorption and Extractability,  
W85-06622 1812 5D

**FIELD, S. D.**  
Onondaga Lake and the Dynamics of Chloride in the Oswego River,  
W85-00549 1802 2H

Scattering and Absorption of Light in Onondaga Lake,  
W85-03805 1808 2H

**FIELDING, M.**  
Nonvolatile Organic Compounds in Treated Waters,  
W85-01208 1803 5F

Organic Compounds in Water: Analysis Using Coupled-Column High-Performance Liquid Chromatography and Soft-Ionization Mass Spectrometry,  
W85-02808 1806 5A

**FIESSINGER, F.**  
How Safe Are Organic Polymers in Water Treatment,  
W85-00711 1802 5F

Potential Use of Enzymes as Catalysts in Drinking Water for the Oxidation of Taste Causing Substances,  
W85-02021 1804 5F

**FIGUERAS, G.**  
Comparative Study of Mercury Contamination in the Tagus Estuary (Portugal) and Major French Estuaries (Gironde, Loire, Rhone),  
W85-06854 1812 5B

**FIGUEROA-VEGA, G. E.**  
Stresses and Displacements in an Aquifer due to Seepage Forces (One-Dimensional Case),  
W85-02489 1805 2F

**FIKS DAL, L.**  
Survival and Detection of *Bacteroides* spp., Prospective Indicator Bacteria,  
W85-04262 1808 5A

**FILBERT, J. W.**  
Survey of Combined Trickling Filter and Activated Sludge Processes,  
W85-03329 1807 5D

**FILBIN, G. J.**  
Seasonal Growth and Community Composition of Phytoplankton in a Eutrophic Wisconsin Impoundment,  
W85-04311 1808 2H

**FILBY, R. H.**  
Organic and Inorganic Mercury Species in the Ft. Lewis Solvent Refined Coal Pilot Plant Water Treatment Process,  
W85-01798 1804 5D

**FILION-MYKLEBUST, C.**  
Environmental and Biochemical Investigation of Some Effects of Organic Pollution in Inner Oslofjord, Norway,  
W85-01896 1804 5C

**FILON, V. V.**  
Morphometric Features of the Roach, *Rutilus rutilus*, of Ivan'kovskoye Reservoir in the Zone Affected by Warm Waste Waters,  
W85-02846 1806 5C

**FILONOV, A. M.**  
Use of Ultrasound for Checking the Frost Resistance of Concrete,  
W85-00462 1801 8G

**FILONOV, V. A.**  
Use of Groundwater Isotopic Parameters for Classifying Structural and Hydrogeological Stages of the Platform Area of Dagestan,  
W85-04094 1808 2F

**FINAMORE, B. A.**  
Regulating Hazardous and Mixed Waste at Department of Energy Nuclear Weapons Facilities; Reversing Decades of Environmental Neglect,  
W85-06528 1812 6E

AUTHOR INDEX

FITZPATRICK, D. J.

**FINCH, H.**  
Lead in Umbilical Blood, Indoor Air, Tap Water, and Gasoline in Boston, W85-0339 1807 5C

**FINGER, S. E.**  
Bioavailability of Pb and Zn from Mine Tailings as Indicated by Erythrocyte delta-Aminolevulinic Acid Dehydratase (ALA-D) Activity in Suckers (Pisces: Catostomidae), W85-01918 1804 5A

**FINK, A. K.**  
Dokan Hydroelectric Station in Iraq, W85-00503 1801 8A

**FINK, D. H.**  
Paraffin-Wax Water-Harvesting Soil Treatment Improved with Antistripping Agents, W85-03091 1806 3B

**FINK, R.**  
Effects of Puget Sound Sediments and Their Elutriates on the Life Cycle of *Capitella capitata*, W85-02782 1806 5C

**FINK, R. P.**  
Sublethal Effects of Dispersed Oil on an Estuarine Isopod, W85-06971 1812 5C

**FINKEL, R. C.**  
Sulphate and Nitrate Concentrations in Snow From South Greenland 1895-1978, W85-06801 1812 5B

**FINKELSTEIN, P. L.**  
Spatial Analysis of Acid Precipitation Data, W85-01040 1802 5B

**FINLAY, B. J.**  
Algal Control of Lake Geochemistry; Redox Cycles in Rotherne Mere, U.K., W85-04982 1810 2H

**FINLAYSON, B. J.**  
Toxicities of Butoxyethanol Ester and Propylene Glycol Butyl Ether Ester Formulations of 2,4-Dichlorophenoxy Acetic Acid (2,4-D) to Juvenile Salmonids, W85-05105 1810 5C

**FINLAYSON, C. M.**  
Biological and Physicochemical Characteristics of the Ross River Dam, Townsville, W85-00783 1802 2H

Short-Term Responses of Young *Typha domingensis* and *Typha orientalis* Plants to High Levels of Potassium Chloride, W85-03317 1807 5D

Studies of the Hydrobiology of a Tropical Lake in North-western Queensland. III. Growth, Chemical Composition and Potential for Harvesting of the Aquatic Vegetation, W85-03496 1807 2H

Wastewater Treatment with Aquatic Plants: Ecotypic Differentiation of *Typha domingensis* Seedlings, W85-02590 1805 5D

**FINNEY, B. A.**  
Monte Carlo Optimization for Reservoir Operation, W85-02659 1805 4A

**FINSTEIN, M. S.**  
Materials Balance in the Composting of Wastewater Sludge as Affected by Process Control Strategy, W85-07040 1812 5E

**FIorentino, M.**  
Regional Flood Frequency Estimation Using the Two-Component Extreme Value Distribution, W85-05903 1811 2A

Two-Component Extreme Value Distribution for Flood Frequency Analysis, W85-02151 1804 2E

**FIROETTO, V.**  
Capacity and Type of Units for Small Run-off-River Plants, W85-03327 1807 8A

**FIRTH, B. K.**  
Status of Water Quality Modeling in the Pulp and Paper Industry, W85-03337 1807 5D

**FIRTH, C. F. JR.**  
State-of-the-Art for Electronic Grade Ultrapure Water Manufacturing and Distribution, Part I, W85-01873 1804 5F

**FISCHER, C.**  
Biogas from Small Facilities (Biogas aus kleinen Anlagen), W85-03466 1807 5D

**FISCHER, E. E.**  
Estimation of Natural Streamflow in the Jemez River at the Boundaries of Indian Lands, Central New Mexico, W85-02048 1804 2E

**FISCHER, K. H.**  
Implications of Slow Deep Water Renewal of Lake Koenigssee Derived from Combined Tritium-3Helium Measurements, W85-06395 1812 2H

**FISCHER, W. R.**  
Proposal on an Ecological Basis for the Classification of Recent Underwater Soils in Rivers (Ein Vorschlag zur Klassifizierung rezenten Unterwasserboden von Flussen auf ökologischer Grundlage), W85-01370 1803 5C

**FISH, G. R.**  
Limnological Changes in a Small Lake Stocked with Grass Carp, W85-03071 1806 4A

**FISHBAUGH, T.**  
Monitoring in the Vadose and Saturated Zones Utilizing Fluoroplastic, W85-03192 1806 7B

**FISHER, C.**  
1,2-Dichloropropane (1,2-D)-1,3-Dichloropropane (1,3-D), W85-06332 1812 5C

**FISHER, D. J.**  
Uptake and Clearance Rates for Kepone in Two Marine Fish Species, W85-04364 1808 5C

**FISHER, J. B.**  
Effects of Benthic Macroinvertebrates on the Exchange of Solutes Between Sediments and Freshwater, W85-06005 1811 2K

**FISHER, J. W.**  
Changes in Bluegill Activity as a Monitor of Acute Benzene Exposure, W85-01088 1802 5A

Toxic Effects of Petroleum and Shale JP-4 and JP-8 Aviation Fuels on Fathead Minnows, W85-06238 1812 5C

**FISHER, L. S.**  
Sediment Retention Efficiency of Synthetic Filter Fabrics, W85-01189 1803 2J

**FISHER, N. S.**  
Accumulation and Toxicity of Cd, Zn, Ag, and Hg in Four Marine Phytoplankton, W85-02758 1806 5C

Measurement of Particulate Association of Americium in Freshwater, W85-04491 1809 5A

**FISHER, S. G.**  
Exchange Between Interstitial and Surface Water: Implications for Stream Metabolism and Nutrient Cycling, W85-00422 1801 2H

Temporal Succession in a Desert Stream Ecosystem Following Flash Flooding, W85-00270 1801 2H

**FISHER, T. C.**  
Evaluation of Semicircular Canals, W85-04221 1808 8A

**FISHER, T. R.**  
Carbon and Nitrogen Primary Productivity in Three North Carolina Estuaries, W85-00665 1802 2L

Vertical Distribution of Zooplankton and Physico-Chemical Conditions During a 24-hour Period in an Amazon Floodplain Lake - Lago Calado, Brazil, W85-06449 1812 2H

**FISHMAN, M. J.**  
Validation of an Automated Fluorescein Method for Determining Bromide in Water, W85-06737 1812 5A

**FISHMAN, Y. A.**  
Methods of Determining the Stress State of Rock Masses at Construction Sites of Hydraulic Structures, W85-06590 1812 8E

**FISHMAN, YU. A.**  
Optimization of Site Surveys Based on Preliminary Design Analysis, W85-00435 1801 8A

**FISKE, J. G. A.**  
Comparing Soil Tests for a Forested Acid Sandy Soil Topdressed with Sewage Effluent, W85-02878 1806 5E

**FISZMAN, M.**  
Mineral Distribution and Ecological Role of a Recently Formed Halophyte Community in the Guanabara Bay Rio De Janeiro, W85-04851 1809 5C

Size and Metal Concentration in the Mangrove Mussel *Mytilus guyanensis* (Mollusca: Bivalva) from Baia de Sepetiba, Brazil, W85-02718 1806 5A

Uptake and Release of 51Cr(VI) and 51Cr(III) by Barnacles (*Balanus sp.*), W85-01353 1803 5B

**FITCH, J. H. JR.**  
Evaluation of Ion Exchange Technology for Toxic and Nonconventional Pollutant Reduction in Bleach Plant, W85-05264 1810 5D

**FITZGERALD, M. J.**  
Daily Water and Sediment Discharges from Selected Rivers of the Eastern United States: A Time-Series Modeling Approach, W85-01823 1804 2J

**FITZGERALD, P. D.**  
High Resolution Scanner Data for the Detection of Soil Moisture Variation, W85-01177 1803 2G

**FITZNER, R. E.**  
Mineral Content of Canada Goose Eggs and Implications for Environmental Surveillance Along the Columbia River, W85-06873 1812 5A

**FITZPATRICK, D. J.**  
Subsurface Storage of Freshwater in South Florida: A Prospectus, W85-00029 1801 4B

## AUTHOR INDEX

**FIUZAT, A. A.**

**FIUZAT, A. A.**  
Historical Overview of Cross-Flow Turbine,  
W85-03328 1807 8C

Salt River Channelization Project: Model Study,  
W85-05783 1810 2J

**FJELLHEIM, A.**  
Acidification and Early Warning Organisms in  
Freshwater in Western Norway,  
W85-05678 1810 5A

**FJERDINGSTAD, E.**  
Heavy Metal Distribution in Norwegian Acidic  
Lakes: A Preliminary Record,  
W85-00873 1802 5C

**FLACK, J. E.**  
Hydraulic Jump Properties over a Rough Bed,  
W85-03787 1808 8B

**FLADDA, G.**  
Wastewater Treatment at a Swedish Cardboard  
Factory: Possible Cost Savings,  
W85-05259 1810 5D

**FLANNERY, M. S.**  
Deepwater Sediments and Trophic Conditions  
in Florida Lakes,  
W85-02099 1804 2H

**FLATH, L. E.**  
Intakes as Sampling Locations for Investigating  
Long-Term Trends in Zooplankton Populations,  
W85-03311 1807 7B

**FLAXMAN, E. W.**  
Developments in Materials and Design Tech-  
niques for Sewerage Systems,  
W85-04517 1809 8A

**FLEEGER, J. W.**  
Effect of Crude Oil on the Colonization of  
Meiofauna into Salt Marsh Sediments,  
W85-03505 1807 5C

**FLEER, H.**  
Rainfall Fluctuations in India and Sri Lanka and  
Large-Scale Rainfall Anomalies,  
W85-05093 1810 2B

**FLEET, G. H.**  
Effects of Water Temperature and Salinity on  
Elimination of *Salmonella* *cholerae* and *Escherichia*  
*coli* from Sydney Rock Oysters (*Crassostrea*  
*commercialis*),  
W85-03436 1807 5B

**FLEGAL, A. R.**  
EDTA Chelation and Zinc Antagonism with  
Cadmium in Sediment: Effects on the Behavior  
and Mortality of Two Infaunal Amphipods,  
W85-04084 1808 5B

**U.S. Mussel Watch: 1977-1978 Results on Trace  
Metals and Radionuclides,**  
W85-00669 1802 5B

**FLEISCHMAN, M.**  
Biotoxicity of Coal Liquefaction Waste in the  
Activated Sludge Process,  
W85-05437 1810 5D

**FLEKSEDER, H.**  
Anaerobic Treatment of Sulfite Pulp Mill Ef-  
fluentes,  
W85-07011 1812 5D

**FLEMER, D. A.**  
Nutrient Enrichment of Chesapeake Bay and Its  
Impact on the Habitat of Striped Bass: A Specu-  
lative Hypothesis,  
W85-06409 1812 2L

**FLEMING, W. L.**  
Policies and Procedures for Land Treatment of  
Wastewater,  
W85-00082 1801 5D

**FLEMMING, G.**

Calculation of Melt-water Discharge from the  
Snow Cover in Catchment Areas in the Mittel-  
gebirge Mountains (Berechnung der Schmelz-  
wasserabgabe aus der Schneedecke in Einzugs-  
gebieten des Mittelgebirges),  
W85-01972 1804 2C

**FLETCHER, B. P.**

Los Esteros Spillway, Pecos River, New  
Mexico: Hydraulic Model Investigation,  
W85-06927 1812 8B

**FLETCHER, R. A.**

Triadimefon Reduces Transpiration and Increase  
Yield in Water Stressed Plants,  
W85-06104 1811 2I

**FLEXOR, J.-M.**

Records of Flooding Periods in a River Mouth.  
Example of the Rio Paraiba do Sul (Brazil).  
Paleoclimatic Implications (Enregistrement des  
Periodes de fortes et Faibles Energies a l'embou-  
chure d'un fleuve. Le cas du Rio Paraiba do Sul  
(Brasil). Implications Climatiques),  
W85-03810 1808 2E

**FLINSPACH, D.**

Application of a Basic Hydraulic Principle for  
the Water Distribution in the New Water Works  
Egau of the Landeswasserversorgung (Anwen-  
dung eines alten Hydraulischen Prinzips der  
Wasserverteilung im Neuen Egau-Wasserwerk  
der Landeswasserversorgung),  
W85-03446 1807 5F

**FLINT, R. F.**

Fluvial Sedimentation of Kentucky,  
W85-03897 1808 2J

**FLINT, R. W.**

Phytoplankton Production in the Corpus Christi  
Bay Estuary,  
W85-04432 1809 2L

**FLIPSE JR, W. J.**

Nitrogen-Isotope Ratios of Nitrate in Ground  
Water Under Fertilized Fields, Long Island,  
New York,  
W85-04641 1809 5B

**FLIPSE, W. J. JR.**

Sources of Nitrate in Ground Water in a  
Sewered Housing Development, Central Long  
Island, New York,  
W85-01529 1803 5B

**FLOKSTRA, C.**

Bed Deformation in Curved Alluvial Channels,  
W85-07033 1812 2J

**FLOOD, R. D.**

Effects of Bottom Currents and Fish on Sedimen-  
tation in a Deep-water, Lacustrine Environ-  
ment,  
W85-04309 1808 2J

**FIDE SCAN Targets in Lake Superior - Evidence**

for Bedforms and Sediment Transport,  
W85-01277 1803 2J

**FLORA, M. D.**

Historical Changes in the Conductivity and  
Ionic Characteristics of the Source Water for the  
Shark River Slough, Everglades National Park,  
Florida, U.S.A.,  
W85-01483 1803 6G

**FLORENCE, T. M.**

Toxicity of Copper to the Marine Amphipod  
*Allorchestes compressa* in the Presence of  
Water- and Lipid-Soluble Ligands,  
W85-03841 1808 5C

**FLORSHEIM, J.**

Channel Change, Sediment Transport, and Fish  
Habitat in a Coastal Stream: Effects of an Ex-  
treme Event,  
W85-05069 1810 2E

**FLOWER, R. J.**

Inwash of Catchment Diatoms as a Source of  
Error in the Sediment-Based Reconstruction of  
pH in an Acid Lake,  
W85-03880 1808 5A

Lake Acidification in Galloway: A Palaeoecolo-  
gical Test of Competing Hypotheses,  
W85-06013 1811 5B

Magnetic Susceptibility of Sedimenting Material  
Trapped in Lough Neagh, Northern Ireland, and  
Its Erosional Significance,  
W85-01595 1803 2J

Sediment Supply and Accumulation in a Small  
Moroccan Lake: An Historical Perspective,  
W85-00792 1802 2J

**FLUECK, J. A.**  
Continuing Design, Review, and Analysis Work  
for the Sierra Cooperative Pilot Project,  
W85-05349 1810 3B

**FLUGRATH, M. W.**  
Water-Quality Records for Selected Reservoirs  
in Texas, 1976-77 Water Years,  
W85-00621 1802 5A

**FLYNN, M. F.**  
Invertebrate Colonization of Submerged Wood  
in a Cypress-Tupelo Swamp and Blackwater  
Stream,  
W85-05120 1810 2H

**FOAT, N. S.**  
Water Available for Runoff for 1 to 15 Days  
Duration and Return Periods of 2 to 100 Years  
for Selected Agricultural Regions in the North-  
west United States,  
W85-05363 1810 2B

**FOCARDI, S.**  
Trace-metals and Chlorinated Hydrocarbons in  
Bird's Eggs from the Delta of the Danube,  
W85-07146 1812 5B

**FOCSA, V.**  
Romania Gives Priority to Embankment Dams,  
W85-05817 1810 8A

**FOELL, E. J.**  
Kepone Concentration in Juvenile Anadromous  
Fishes,  
W85-01847 1804 5B

**FOGELMAN, R. P.**  
Data for Ground-Water Test Hole Near Butte  
City, Central Valley Aquifer Project, California,  
W85-01941 1804 7C

**FOGG, G. E.**  
Automatic Generation of Flow Nets with Con-  
ventional Ground-Water Modeling Algorithms,  
W85-06823 1812 2F

**FOK, Y.-S.**  
2-D Infiltration Equations for Furrow Irrigation,  
W85-01512 1803 2G

**FOKA, R.**  
Classification of Daily, Monthly and Seasonal  
Rainfall over France (Typologie des Precipita-  
tions Quotidiennes, Mensuelles et Saisonnieres  
sur La France),  
W85-00393 1801 2B

**FOKIN, A. D.**  
Iron Migration in Sandy Podzolic Soils under  
Increasing Hydromorphism Produced by a Res-  
ervoir,  
W85-05909 1811 6G

**FOLLER, P. C.**  
Electrochemical Generation of High-Concentra-  
tion Ozone for Waste Treatment,  
W85-05771 1810 5D

**FOLSOM, B. L.**  
Field Survey of Heavy Metal Uptake by Natu-  
rally Occurring Saltwater and Freshwater  
Marsh Plants,  
W85-06976 1812 5B

## AUTHOR INDEX

**FOSTER, P.**

Influence of Disposal Environment on Availability and Plant Uptake of Heavy Metals in Dredged Material, W85-05601	1810 5B	Optimal Operation of California Aqueduct, W85-06033	1811 4A	Sediment Deposits in Drainage Ditches: A Cropland Externality, W85-05965	1811 2J
FONTAINE, J. Towards Total Automation of Water Distribution (Vers l'Automatisation Integrale dans la Distribution d'Eau), W85-02009	1804 6A	FORD, G. S. Nutrient Removal Trials and Bioassay Evaluation at Budds Farm Sewage-Treatment Works, Havant, W85-04526	1809 5D	FORSTNER, U. Accumulative Phases for Heavy Metals in Limnic Sediments, W85-02077	1804 5B
FONTAINE, N. Bacterial Degradation of Selected Organics in Natural Waters of Northeastern Minnesota, W85-06863	1812 5B	FORD, T. E. Microcalorimetric Approach to Determine Relationships Between Energy Supply and Metabolism in River Epilithon, W85-05052	1810 2H	FORSYTH, D. J. Aspects of the Limnology of Lake Rotongao, W85-00807	1802 2H
FONTAINE, T. D. Effects of White Amur (Ctenopharyngodon idella) on a Florida Lake: A Model, W85-01306	1803 5G	FORD, W. B. Evaluation of Techniques to Estimate Annual Water Quality Loadings to Reservoirs, W85-06908	1812 5B	FORTE, P. E. Interactive Computer Modeling, Monitoring, and Control of Melbourne's Water Supply System, W85-05492	1810 5F
FONTAINE, T. D. III. Application of Risk and Uncertainty Analysis Techniques to a Heavy Metal Speciation Model, W85-00259	1801 5B	FORMANEK, G. E. Freeze-Thaw and Consolidation Effects on Strength of Wet Silt Loam, W85-06082	1811 2J	FORTI, A. Lack of Nephrotoxicity in the Rat by Sodium Chlorite, a Possible Byproduct of Chlorine Dioxide Disinfection in Drinking Water, W85-02119	1804 5F
Non-Equilibrium Approach to Modeling Toxic Metal Speciation in Acid, Aquatic Systems, W85-00258	1801 5B	FORNEK, J. T. Implementation of a User Charge System Incorporating a Dedicated Ad Valorem Tax Structure, W85-05277	1810 6C	FORSTIN, M. Forecasting Relative Price Movements for Project Evaluation, W85-03158	1806 6C
FONTVIEILLE, D. Occurrence of DNA in River Sediment: Its Meaning and Relations With Benthos Respiration, Organic Load and Macroinvertebrates Biomass, W85-04699	1809 5C	FORRESTER, F. H. Inventory of the World's Water, W85-07077	1812 2A	FORTMANN, L. Fate of epsilon-Caprolactam in the Aquatic Environment, W85-01956	1804 5B
FOOTE, L. E. Roadside Erosion Causes and Factors: Minnesota Survey Analysis, W85-06070	1811 2J	FORRESTER, J. Determination of Fenthion Residues in Samples of Marine Biota and Seawater from Laboratory Exposures and Field Applications, W85-06581	1812 5A	FORTNER, A. R. Simultaneous Accumulations of Naphthalene, a PCB Mixture, and Benzo(a)pyrene, by the Oyster, Crassostrea virginica, W85-04477	1809 5B
FORBES, E. J. Some Considerations on Iron Removal, W85-03802	1808 5F	FORSBERG, B. R. Mixing Patterns in Amazon Lakes, W85-01004	1802 2H	FORTSON, J. C. Additional Tests on the Effect of Rainfall Intensity on Storm Flow and Peak Flow from Wild-Land Basins, W85-02166	1804 2E
FORBES, F. M. Phytoplankton of Lake Simcoe During the Ice-Free Periods of 1980-82 and Potential Response to Reduced Phosphorus Loadings, W85-06860	1812 2H	FORBES, G. M. Fundamentals of Chlorination, W85-01622	1803 5F	FOSS, G. M. Erosion and Sedimentation Chronology of Three Watersheds in Maryland, W85-01835	1804 2J
FORD, D. Comparison of Precipitation and Land Runoff as Sources of Estuarine Nitrogen, W85-00649	1802 5B	FORBES, G. C. Frequency Distributions of Water Quality Variables; Relationships Between Mean and Maximum Values, W85-00553	1802 5B	FOSSI, C. Trace-metals and Chlorinated Hydrocarbons in Birds' Eggs from the Delta of the Danube, W85-07146	1812 5B
FORD, D. C. Alpine Karst Systems at Crowsnest Pass, Alberta-British Columbia, Canada, W85-00015	1801 2F	FORBES, J. Photosynthesis of Submersed Macrophytes in Acidified Lakes. I. Carbon Fluxes and Recycling of CO <sub>2</sub> in Juncus bulbosus L., W85-02794	1806 2H	FOSTER, G. R. Erosion of Earth Covers Used in Shallow Land Burial at Los Alamos, New Mexico, W85-01282	1803 5G
Castleguard Karst, Main Ranges, Canadian Rocky Mountains, W85-00016	1801 2F	FORBERG, B. R. Variation of Water Quality Parameters in Mesotrophic Lakes, Hypereutrophic Lakes, W85-04536	1809 2H	Laboratory Study of Rill Hydraulics: I. Velocity Relationships, W85-03387	1807 2E
Effects of Glaciations upon Karst Aquifers in Canada, W85-00009	1801 2E	FORSETH, I. N. Field Water Relations of Sonoran Desert Annals, W85-02817	1806 2I	Laboratory Study of Rill Hydraulics: II. Shear Stress Relationships, W85-03388	1807 2J
Goose Arm Karst, Newfoundland, Canada, W85-00014	1801 2F	FORSTROM, J. Application of Models in Developing Control Strategies for Activated Sludge Waste Water Treatment Plants, W85-01431	1803 5D	Predicted Erosion and Sediment Delivery of Fission Plutonium, W85-03858	1808 5B
Karst Hydrology of the Bruce Peninsula, Ontario, Canada, W85-00011	1801 2F	FORSTER, C. F. Oxidation Ditches - Principles and Innovations, W85-03721	1807 5D	FOSTER, J. L. Nimbus-7 SMMR Polarization Responses to Snow Depth in the Mid-Western U.S., W85-06636	1812 2C
Karstic Interpretation of the Winnipeg Aquifer (Manitoba, Canada), W85-00013	1801 2F	FORSTER, D. L. Accelerated Implementation Program for Reducing the Diffuse-Source Phosphorus Load to Lake Erie, W85-05964	1811 5G	FOSTER, K. E. Systems for Rainfall and Runoff Use, Tucson, Arizona, W85-04995	1810 3B
Upper Salmon River Karst, Anticosti Island, Quebec, Canada, W85-00010	1801 2F	FOSTER, P. Dissolved Silicon in a North Wales Catchment of High Relief, W85-06728	1812 2K		
FORD, D. T. Hydrologic Engineering Center Planning Models, W85-06247	1812 2A				

## AUTHOR INDEX

**FOSTER, P.**

Inhibitions to Pollutant Dissipation in the Northeast Irish Sea,  
W85-01485 1803 5B

**FOUILLAC, C.**  
Use of the L'vov Platform and Molybdenum Coating for the Determination of Volatile Elements in Thermomineral Waters by Atomic Absorption Spectrometry,  
W85-06253 1812 5A

**POULGER, T. R.**  
Water Quality Implications of Artificial Flow Fluctuations in Regulated Rivers,  
W85-02413 1805 2K

**FOUNTAIN, A. G.**  
Effect of Glaciers on Streamflow Variations,  
W85-06512 1812 2E

**FOWLER, D.**  
Chemical Composition of Rainfall and Wet Deposition over Northern Britain,  
W85-03295 1807 5B

Episodic Nature of Wet Deposited Sulphate and Acidity,  
W85-03292 1807 5B

**FOWLER, S. W.**  
Factors Affecting the Biokinetics of Technetium (99mTc) in Marine Macroalgae,  
W85-01310 1803 5B

**FOWLER, W. K.**  
Rapid, Sensitive, Gas Chromatographic Determination of Diethyl Malonate and Diethyl Succinate in Water Facilitated by Sorbent-Tube Preconcentration,  
W85-00167 1801 5A

**FOX, J. R.**  
Biology, Ecology and Chemistry of a Floc-Like Sediment in Lake Erie,  
W85-02642 1805 2H

**FOX, K. R.**  
Pilot-Plant Studies of Slow-Rate Filtration,  
W85-04408 1808 5F

**FOX, L. L.**  
Controlling Residual Polychlorinated Biphenyls in Wastewater Treatment Through Conventional Means,  
W85-05263 1810 5D

**FOX, M. E.**  
Aquatic Leeches (*Hirudinea*) as Bioindicators of Organic Chemical Contaminants in Freshwater Ecosystems,  
W85-01958 1804 5A

Pate of Pentachlorophenol in the Bay of Quinte, Lake Ontario,  
W85-00925 1802 5B

**FOXHOVEN, L. A.**  
Water Resources Division Training Catalog,  
W85-02032 1804 9B

**FOY, M. G.**  
Acute Lethal Toxicity of Prudhoe Bay Crude Oil and Corexit 9527 to Arctic Marine Fish and Invertebrates,  
W85-06970 1812 5C

**FRAAS, A. G.**  
Municipal Wastewater Treatment Cost,  
W85-03889 1808 6C

**FRADKIN, L.**  
Energy and Materials Recovery Options for the Textile Industry,  
W85-05241 1810 5D

**FRANC, G. D.**  
Soft Rot *Erwinia* Bacteria in Surface and Underground Waters in Southern Scotland and in Colorado, United States,  
W85-03297 1807 5B

**FRANCE, P. W.**  
Finite Element Solutions for Mass Oscillations in Surge Tanks,  
W85-04155 1808 8B

**FRANCIS, A. J.**  
Effect of Lake pH on Microbial Decomposition of Allochthonous Litter,  
W85-04200 1808 5C

**FRANCIS, C. W.**  
Status of Health and Environmental Research Relative to Solid Wastes from Coal Conversion,  
W85-04229 1808 5C

**FRANCIS, D. D.**  
Water Quality from Erosion Control Structures in Nebraska,  
W85-06716 1812 2J

**FRANCIS, M. M.**  
Nitrogen Fixation in Subarctic Streams Influenced by Beaver (*Castor canadensis*),  
W85-05737 1810 2H

**FRANCIS, P. B.**  
Shallow-Layer Soil Water Potential Changes Due to Waterdrop Impact,  
W85-00752 1802 2G

**FRANCIS, P. C.**  
Effects of Cadmium-Enriched Sediment on Fish and Amphibian Embryo-Larval Stages,  
W85-02701 1806 5C

**FRANCKO, D. A.**  
Relationships Between Phosphorus Functional Classes and Alkaline Phosphatase Activity in Reservoir Lakes,  
W85-04313 1808 2H

**FRANCO, J. J.**  
Model-Prototype Comparison Study of Dike Systems, Mississippi River: Potamology Investigations,  
W85-06892 1812 8B

Summary Report: Model-Prototype Comparison Study of Dike Systems, Mississippi River: Potamology Investigations,  
W85-06962 1812 8A

**FRANCO, P. J.**  
Acute Toxicity of a Synthetic Oil, Aniline and Phenol to Laboratory and Natural Populations of Chironomid (Diptera) Larvae,  
W85-01445 1803 5A

Persistence of Phenols in Aquatic Microcosms Receiving Chronic Inputs of Coal-Derived Oil,  
W85-05700 1810 5B

**FRANCOU, J.**  
Small Hydroelectric Installations in the Developing Countries (Les petites installations hydroélectriques dans les pays en voie de développement),  
W85-00380 1801 8A

**FRANK, C. W.**  
Use of Simple Kinetic Models to Help Design Environmental Monitoring Systems,  
W85-05102 1810 5A

**FRANKE, R.**  
Observations from the Execution of Dike and Drainage Ditch Inspection in the Magdeburg District (Erfahrungen bei der Durchführung von Deich- und Grabenschauen im Bezirk Magdeburg),  
W85-03530 1807 6E

**FRANKEL, I.**  
Wastewater Treatment Systems for Synthetic Fuels Plants Based on Peat and Oil Shale,  
W85-04880 1809 5D

**FRANKEL, L.**  
Economic, Legal and Institutional Relations Involved in Diversion and Other Interbasin Transfers,  
W85-06304 1812 6A

Economic, Legal and Institutional Relations Involved in Diversion and Other Interbasin Transfers,  
W85-06307 1812 6A

**FRANKLIN, A.**  
Water Quality Studies Around the Sewage Sludge Dumping Site in Liverpool Bay,  
W85-02290 1805 5B

**FRANKLIN, D. R.**  
Cost Sharing with Irrigated Agriculture: Promise Versus Performance,  
W85-02361 1805 6C

**FRANKLIN, M. A.**  
Magnitude and Frequency of Floods from Urban Streams in Leon County, Florida,  
W85-02047 1804 4A

**FRANKLIN, S. E.**  
Small Format, Hand Held Helicopter Based Photography for Monitoring Industrial Water Effluent Plumes,  
W85-04586 1809 7B

**FRANTZEN, J. A.**  
Investigation of Moisture-Induced Variation in Subgrade Modulus by Cross-Correlation Method,  
W85-06063 1811 8D

**FRANZ, K.**  
Application of Telemetry to Large-Scale Horizontal Anisotropic Permeability Determinations by Surface Tiltmeter Survey,  
W85-03184 1806 7B

**FRANZBLAU, S. G.**  
Effect of Noncoliforms on Coliform Detection in Potable Groundwater: Improved Recovery with an Anaerobic Membrane Filter Technique,  
W85-02140 1804 5F

**FRAPE, S. K.**  
Water-Rock Interaction and Chemistry of Groundwaters from the Canadian Shield,  
W85-03205 1806 2K

**FRASCARI, F.**  
Heavy Metals in Sediments from Different Environments of a Northern Adriatic Sea Area, Italy,  
W85-03981 1808 5B

**FRASER, A. S.**  
Mass Balance Models of Phosphorus in Sediments and Water,  
W85-02071 1804 2J

**FRASER, J. A. L.**  
Effects of a Settled Industrial Domestic Sewage Works Effluent from Percolating Filters on the Embryo Viability and Hatching Success of Rainbow Trout, *Salmo gairdneri* Richardson,  
W85-03002 1806 5C

Hydrogen Peroxide in Municipal, Landfill and Industrial Effluent Treatment,  
W85-00684 1802 5D

Tip Leachate Treatment Using Hydrogen Peroxide,  
W85-04522 1809 5D

**FRASER, J. E.**  
Liming of Acidified Waters: A Review of Methods and Effects on Aquatic Ecosystems,  
W85-05310 1810 5C

**FRAZIER, J. M.**  
Interspecies Differences in Heavy Metal Detoxification in Oysters,  
W85-05896 1811 5C

**FREAY, A. D.**  
Occurrence and Toxicity of Herbicides in Reef Building Corals,  
W85-03313 1807 5C

## AUTHOR INDEX

<b>FRECKLETON, J. R.</b> Ground Water in the Twenty-Nine Palms Indian Reservation and Vicinity, San Bernardino County, California, W85-01779	1804 2F	<b>FREITAG, D.</b> Prediction of Ecotoxicological Behaviour of Chemicals: Relationship between n-Octanol/Water Partition Coefficient and Bioaccumulation of Organic Chemicals by Alga Chlorella, W85-01959	1804 3B
<b>FREDA, J.</b> Field and Laboratory Studies of Ion Balance and Growth Rates of Ranid Tadpoles Chronically Exposed to Low pH, W85-06859	1812 5C	<b>FREMPOONG, E.</b> Diel Aspects of the Thermal Structure and Energy Budget of a Small English Lake, W85-01462	1803 2H
<b>FREDERICK, K. D.</b> Water Resource Issues and the Future of Irrigated Agriculture, W85-04186	1808 6D	<b>FRENCH, H. M.</b> Groundwater Hydraulics of Seasonal Frost Mounds, North Fork Pass, Yukon Territory, W85-03198	1806 2C
<b>FREDERICK, R. E.</b> Preliminary Findings of the Priority Pollutant Monitoring Project of the Nationwide Urban Runoff Program, W85-01661	1804 5A	<b>FRENCH, J. J.</b> Data for Ground-Water Test Hole Near Butte City, Central Valley Aquifer Project, California, W85-01941	1804 7C
<b>FREDERICKS, A. D.</b> Application of the Biotab Ocean Monitor System to a Study of the Impacts of Ocean Dumping of Dredged Material in the New York Bight, W85-00051	1801 5C	<b>FRENCH, O. F.</b> Consumptive Use of Water by Major Crops in the Southwestern United States, W85-05346	1810 2I
<b>FREDLUND, D. G.</b> Saturated-Unsaturated Transient Finite Element Seepage Model for Geotechnical Engineering, W85-04173	1808 8B	<b>FRENCH</b> , Water Management for Guayule Rubber Production, W85-06085	1811 3F
Steady State Model for Flow in Saturated-Unsaturated Soils, W85-03424	1807 2F	<b>FRENCH, P. N.</b> Interactive Data Management for Resource Planning and Analysis, W85-05493	1810 6A
<b>FREEDMAN, L.</b> Controlling Phosphate Based Water Treatment Programs, W85-06598	1812 5F	<b>FRENCH, R. J.</b> Water Use Efficiency of Wheat in a Mediterranean-Type Environment. I The Relation Between Yield, Water Use and Climate, W85-06099	1811 3F
<b>FREELAND, G. L.</b> Sediment Cap Stability Study, New York Dredged Material Dumpsite, W85-00053	1801 5E	<b>FRENCH</b> , Water Use Efficiency of Wheat in a Mediterranean-Type Environment. II Some Limitations to Efficiency, W85-06100	1811 2I
<b>FREEMAN, W. R.</b> Graphical Analysis of the Interrelationships among Waterborne Asbestos, Digestive System Cancer and Population Density, W85-02708	1806 5C	<b>FRENCH, V.</b> Let the Seas Do the Disposal, W85-04648	1809 5E
<b>FREESTONE, H. J.</b> Sensitivity of Flow Measurement to Stage Errors for New Zealand Catchments (Note), W85-02559	1805 2E	<b>FRENETTE, M.</b> Water Resource Plan Produces Multiple Benefits, W85-05980	1811 6B
<b>FREEZER, P.</b> Limitations of Body Burden as an Index of Environmental Contamination: Heavy Metals in Fish <i>Cottus gobio</i> L. from the River Ecclesbourne, Derbyshire, W85-01446	1803 5A	<b>FRENNETT, J.-J.</b> Brook Trout ( <i>Salvelinus fontinalis</i> ) Population Structure in Acidified Lac Tantare, Quebec, W85-01489	1803 5C
<b>FREEZER, R. A.</b> Comparison of Rainfall-Runoff Modeling Techniques on Small Upland Catchments, W85-05502	1810 2A	<b>FRENZEL, P. F.</b> Interaction between Discharge and Populations of Parr ( <i>Salmo salar</i> ) of the Matamec River, Quebec (Interaction Entre le Débit et les Populations de Tacons ( <i>Salmo salar</i> ) de la Rivière Matamec, Québec), W85-01492	1803 2H
Theoretical Analysis of the Role of Groundwater Flow in the Genesis of Stratabound Ore Deposits. 1. Mathematical and Numerical Model, W85-03672	1807 2F	<b>FRENZEL, P. F.</b> Estimates of Vertical Hydraulic Conductivity and Regional Ground-Water Flow Rates in Rocks of Jurassic and Cretaceous Age, San Juan Basin, New Mexico and Colorado, W85-00844	1802 2F
Theoretical Analysis of the Role of Groundwater Flow in the Genesis of Stratabound Ore Deposits. 2. Quantitative Results, W85-03673	1807 2K	<b>FRIMMEL, H.</b> Simulated Changes in Ground-Water Levels Related to Proposed Development of Federal Coal Leases, San Juan Basin, New Mexico, W85-00858	1802 4C
<b>FREI, R. W.</b> Industrial Wastewater Analysis by Liquid Chromatography with Precolumn Technology and Diode-Array Detection, W85-06257	1812 5A	<b>FRENZEL, S. A.</b> Comparison of Methods for Estimating Ground-Water Pumpage for Irrigation, W85-05843	1810 2F
<b>FREISHIST, A. R.</b> Use of Steel Fiber-Reinforced Concrete for Groove Elements of Gates, W85-00446	1801 8F	<b>FRIGGSEN, H.</b> Heavy Metals in Sediments from Different Environments of a Northern Adriatic Sea Area, Italy, W85-03981	1808 5B
<b>FRILIGOS, N.</b> Nutrients of the Saronikos Gulf in Relation to Environmental Characteristics (1973-1976), W85-00424	1801 5C		

## AUTHOR INDEX

**FRIND, E. O.**

**FRIND, E. O.**  
Dual Formulation of Flow for Contaminant Transport Modeling; 2. The Borden Aquifer, W85-05497 1810 5B

**FRIND, E. O.**  
Contaminant Transport in Fractured Porous Media: Analytical Solution for a Two-Member Decay Chain in a Single Fracture, W85-02170 1804 5B

**FRINDT, E. S.**  
Evaluating Sedimentation and Various Filter Media for Removal of Giardia Cysts, W85-04832 1809 5F

**FRING, E. O.**  
Dual Formulation of Flow for Contaminant Transport Modeling; 1. Review of Theory and Accuracy Aspects, W85-05496 1810 5B

**FRIOCOURT, M. P.**  
Determination of Polyaromatic Hydrocarbons in Scallops (*Pecten maximus*) by UV Fluorescence and HPLC Combined with UV and Fluorescence Detectors, W85-04474 1809 5B

**FRISCHE, R.**  
Environmental Model Segment Approach for Estimating Potential Environmental Concentrations, I. The Model, W85-02699 1806 5B

Environmental Model Segment Approach for Estimating Potential Environmental Concentrations, II. Application of the Model to p-Dichlorobenzene and Trichloroethene, W85-02700 1806 5B

**FRITH, C. F.**  
State-of-the-Art for Electronic Grade Ultrapure Water Manufacturing and Distribution, Part II, W85-03843 1808 5F

**FRITHSEN, J. B.**  
Metal Incorporation by Benthic Fauna: Relationships to Sediment Inventory, W85-03634 1807 5C

Recovery of a Polluted Estuarine System: A Mesocosm Experiment, W85-01046 1802 5B

**FRITSCHEN, L. J.**  
Pressure Transducer for Determining Atmospheric Pressure and Evapotranspiration with a Hydraulic Weighing Lysimeter, W85-01069 1802 7B

**FRITTON, D. D.**  
Restoration of Failing On-Site Wastewater Disposal Systems Using Water Conservation, W85-01656 1804 5D

**FRITZ, P.**  
Water-Rock Interaction and Chemistry of Groundwaters from the Canadian Shield, W85-03205 1806 2K

**FROELICH, C. G.**  
Oligomictic Man-Made Lake in Southeastern Brazil, W85-05647 1810 2H

**FROELICH, H. A.**  
Prediction of Peak Flows for Culvert Design on Small Watersheds in Oregon, W85-01820 1804 4A

**FROELICH, P. N.**  
Determination of Barium in Seawater by Direct Injection Graphite Furnace Atomic Absorption Spectrometry, W85-03733 1807 5A

Geochemical Behavior of Inorganic Germanium in an Unperturbed Estuary, W85-04760 1809 2K

Geochemistry of Inorganic Germanium In Natural Waters, W85-04482 1809 2K

**FROELICH, P. N. JR.**  
Modeling Estuarine Nutrient Geochemistry in a Simple System, W85-01702 1804 2L

**FROGGATT, J. L.**  
Importance of Streamside Forests to Large Rivers: The Isolation of the Willamette River, Oregon, U.S.A., from its Floodplain by Snagging and Streamside Forest Removal, W85-05663 1810 6G

**FROHLICH, K.**  
Use of Isotope Methods in Hydrogeology, W85-04109 1808 2F

**FROHLICH, R. K.**  
Relations Between Aquifer Electrical and Hydraulic Properties, W85-05839 1810 2F

**FRONDA, A.**  
Uptake of Diquat by Four Aero-Aquatic Hyphomycetes, W85-05852 1811 5C

**FROST, L.**  
Discovery of Permanent Amazon Lakes and Hydraulic Disturbance in the Upper Amazon Basin, W85-04307 1808 2H

**FROST, J. L.**  
Choosing Sewage Ash Disposal Sites in the Twin Cities Metropolitan Area, W85-05366 1810 5D

**FROSTELL, B.**  
Process Control in Anaerobic Wastewater Treatment, W85-07013 1812 5D

**FROSTICK, L. E.**  
Electromagnetic Device for Automatic Detection of Bedload Motion and Its Field Applications, W85-01276 1803 2J

**FRY, B.**  
delta 13C Measurements as Indicators of Carbon Flow in Marine and Freshwater Ecosystems, W85-04431 1809 2K

**FRY, R. H.**  
Prediction and Control of Ground Movement Associated with Trench Excavation, W85-04516 1809 8D

**FRYER, B.**  
Optimization of Colehill Activated-Sludge Plant Operating Conditions, W85-04590 1809 5D

**FUDGE, R. J. P.**  
Collapse of the Lake Whitefish (*Coregonus clupeaformis*) Fishery in Southern Indian Lake, Manitoba, following Lake Impoundment and River Diversion, W85-00641 1802 6G

Increases in Fish Mercury Levels in Lakes Flooded by the Churchill River Diversion, Northern Manitoba, W85-00640 1802 5B

Postimpoundment Winter Sedimentation and Survival of Lake Whitefish (*Coregonus clupeaformis*) Eggs in Southern Indian Lake, Manitoba, W85-00642 1802 6G

**FUHRER, G. J.**  
Chemical Analyses of Elutriates, Native Water, and Bottom Material from Chetco, Rogue, and Columbia Rivers in Western Oregon, W85-03947 1808 2K

**FUHRER, Z.**  
Contact Flocculation-Filtration of Humic Substances, W85-01722 1804 5D

**FUJIARA, L. P.**  
Further Studies on the Zooplankton Community of a Eutrophic Reservoir in Southern Brazil, W85-05648 1810 2H

**FUJISAWA, K.**  
Organic Sulfur Compounds and Polycyclic Hydrocarbons Transferred to Oyster and Mussel from Petroleum Suspension: Identification by Gas Chromatography and Capillary Mass Chromatography, W85-04496 1809 5C

**FUJIWARA, Y.**  
Studies on Chemical Species Dissolved in Groundwaters from the Neogene Strata. A Comparison between Shallow and Deep Groundwaters (in Japanese), W85-00537 1802 2F

Studies on Chemical Species Dissolved in Shallow Groundwaters of Arima Rhyolite Strata, W85-02251 1805 2K

**FUJIYOSHI, Y.**  
Distribution of River Discharged Suspended Matter in Coastal Water (in Japanese), W85-03608 1807 2J

**FUKASE, S.**  
Behavior of Organically-Bound Iron in Lake Ohnuma, W85-00932 1802 2H

Behavior of Organically-Bound Iron in Seawater of Estuaries, W85-01913 1804 2L

**FUKUDA, T.**  
Natural Convection in an Inclined Square Cavity in Regions of Density Inversion of Water, W85-01519 1803 8B

**FUKUI, Y.**  
Studies on Chemical Species Dissolved in Groundwaters from the Neogene Strata. A Comparison between Shallow and Deep Groundwaters (in Japanese), W85-00537 1802 2F

**FUKUSHIMA, M.**  
Metals and Synthetic Organic Compounds in Plankton from the Estuary and Harbor Area in Osaka City, W85-04607 1809 5A

**FUKUSHIMA, T.**  
Some Considerations on Adequate Construction of Box Model and Its Application, W85-02613 1805 5B

**FULTON, G. P.**  
Trends in Drinking Water Treatment; The Shape of Things to Come - Part I, Regulatory Direction, W85-06124 1811 5F

Trends in Drinking Water Treatment: The Shape of Things to Come; Part II - New Developments in Water Treatment, W85-06835 1812 5F

**FUNDERBURG, S. W.**  
Coliphages as Indicators of Enteric Viruses in Activated Sludge, W85-07113 1812 5A

**FUNK, W. H.**  
Comparison of Periphyton Growth on Artificial and Natural Substrates in the Upper Spokane River, W85-04666 1809 2H

## AUTHOR INDEX

GALLOWAY, J. N.

**Removal and Inactivation of Bacteria During Alum Treatment of a Lake,** W85-02602 1805 5G

**FUOCO, R.** Electrochemical Speciation and Determination of Organometallic Species in Natural Waters, W85-02309 1805 5A

Simultaneous Determination of Arsenic, Selenium, Tin and Mercury by Non-Dispersive Atomic Fluorescence Spectrometry, W85-06570 1812 5A

**FURCH, K.** Seasonal Variation of the Major Cation Content of the Varzea-Lake Lago Camaleao, Middle Amazon, Brazil, in 1981 and 1982, W85-04570 1809 2H

Seasonal Variation of Water Chemistry of the Middle Amazon Varzea-Lake Lago Calado (Jahreszeitliche Chemische Veränderungen in Einem Varzea-See des Mittleren Amazonas (Lago Calado, Brasilien)), W85-00764 1802 2H

**FURLANI, G.** Sample Enrichment for Gas Chromatographic Mass Spectrometric Analysis of Polynuclear Aromatic Hydrocarbons in Water and in Organic Mixtures, W85-03411 1807 5A

**FURLONG, E. T.** Hydrocarbon and Azaarene Markers of Coal Transport to Aquatic Sediments, W85-03056 1806 5A

**FURNESS, H. D.** Decomposition of Cydonia dactylon (L.) Pers. in the Seasonally Flooded Areas of the Pongolo River Floodplain: Pattern and Significance of Dry Matter and Nutrient Loss, W85-01479 1803 2H

**FURSE, M. T.** Classification of Sites on British Rivers Using Macroinvertebrates, W85-05674 1810 2H

Preliminary Classification of Running-Water Sites in Great Britain Based on Macro-Invertebrate Species and the Prediction of Community Type Using Environmental Data, W85-00293 1801 2H

**FURUKAWA, K.** Biological Phosphorus Release from Activated Sludge of Sludge Recycling Nitrification-Denitrification Process, W85-04253 1808 5D

Simultaneous Nitrogen and Phosphorus Removal by Anoxic-Aerobic High Sludge Concentration Activated Sludge Process, W85-04254 1808 5D

**FURUTANI, A.** Effects of Lake Acidification on Rates of Organic Matter Decomposition in Sediments, W85-02218 1805 5C

Method for Measuring the Response of Sediment Microbial Communities to Environmental Perturbations, W85-04067 1808 2H

**FUSILLO, T. V.** Distribution of Volatile Organic Compounds in a New Jersey Coastal Plain Aquifer System, W85-06825 1812 5B

**FUWA, K.** Simultaneous Multielement Determination of Trace Metals in Lake Waters by ICP Emission Spectrometry with Preconcentration and Their Background Levels in Japan, W85-06738 1812 5A

**FYTIANOS, K.** Identification and Determination of Some Trace Organic Compounds in Coastal Seawater of Northern Greece, W85-05016 1810 5B

**GABLE, C. G.** Longshore Sand Transport Study at Channel Islands Harbor, California, W85-06918 1812 2J

**GABOURY, D. R.** Street Sweeping as a Water Pollution Control Measure: Lessons Learned over the Past Ten Years, W85-00743 1802 5G

**GABRICHIDZE, G. K.** Consideration of Yielding of a Rock Foundation When Calculating Arch Dams, W85-00458 1801 8E

**GABRIELSON, J. O.** Wind-Related Resuspension of Sediments in the Peel-Harvey Estuarine System, W85-06851 1812 2L

**GACHTER, R.** Does Settling Seston Release Soluble Reactive Phosphorus in the Hypolimnion of Lakes, W85-07071 1812 2H

**GADBOIS, D. F.** Appearance of PCBs in the Surficial Sediments of Casco Bay, Maine, W85-04382 1808 5B

**GADDIS, L. R.** Mississippi River Outflow Patterns Seen by Seasat Radar, W85-06519 1812 2L

**GADEL, F.** Behaviour of Metallic and Radioactive Elements in Lagoonal Sediments: The Example of the Canet-S. Nazaire Pond (Mediterranean Coast), W85-00914 1802 2L

**GADOURY, R. A.** Water Resources Data, Massachusetts and Rhode Island, Water Year 1982, W85-01935 1804 2E

**GAETO, T. A.** Stewart Mountain Dam Concrete Core Analysis - 1983, W85-04938 1809 8A

**GAGARINA, E. L.** Changes in Southern Chernozems after Drip Irrigation, W85-06750 1812 3F

**GAGE, K. S.** Relationship of Precipitation to Vertical Motion Observed Directly by a VHF Wind Profiler During a Spring Upslope Storm Near Denver, Colorado, W85-07075 1812 2B

**GAGE, M. A.** Alkaline Phosphatase Activity and Cellular Phosphorus as an Index of the Phosphorus Status of Phytoplankton in Minnesota Lakes, W85-06418 1812 2H

**GAGGIANI, N. G.** Generalized Altitude and Configuration of the Water Table in Parts of Larimer, Logan, Sedgewick, and Weld Counties, Colorado, W85-01775 1804 2F

**GAGLIANO, S. M.** Renewal and Use of the Mississippi River Delta Plain, W85-00579 1802 6G

**GAGNON, G. A.** Role of Water Audits in Water Conservation, W85-01572 1803 3D

**GAHNSTROM, G.** Short-term Effects of Liming on Sediment Oxygen Uptake in an Acid lake, W85-04537 1809 5G

**GAHWILER, J.** Automation on Run-of-River Power Plants on the Inn (Automatisierung von Laufwasserkraftwerken am Inn), W85-01258 1803 8A

**GAINER, R. B.** Control of Ground Water Contamination at an Active Uranium Mill, W85-06833 1812 5G

**GAL, M.** Effect of Water Quality and Drying on Soil Crust Properties, W85-05189 1810 2G

**GALPERIN, I. G.** Cutoff Works at the Hao-Binh Hydrostation in Vietnam, W85-00501 1801 8A

**GALASSO, M. E.** Gill Fouling and Parasitism in the Rock Crab, Cancer irroratus Say, W85-05893 1811 5C

**GALAT, D. L.** Predicted Effects of Increasing Salinity on the Crustacean Zooplankton Community of Pyramid Lake, Nevada, W85-05754 1810 6G

**GALE, J. E.** Effects of Groundwater Geochemistry on the Permeability of Grouted Fractures, W85-03416 1807 2F

Impact of Groundwater on Mining and Underground Space Development in the Niagara Escarpment Area, W85-03417 1807 2F

**GALEA, G.** Direct Acquisition of Rainfall Data on Site (Saisie Directe Sur Le Site de l'information Pluviographique), W85-00388 1801 7B

**GALIL, N.** Kinetic Studies of Chemical and Biological Treatment for Renovation, W85-07053 1812 5D

**GALLAGHER, J. N.** Relations Between Available and Extractable Soil Water and Evapotranspiration from a Bean Crop, W85-06279 1812 2G

**GALLANGER, S. M.** Use of Coagulants to Treat Seafood Processing Wastewaters, W85-02578 1805 5D

**GALLOT, W. J.** Aluminum in Drinking Waters, W85-05914 1811 5F

**GALLOWAY, J. N.** Acid Precipitation: Natural Versus Anthropogenic Components, W85-06060 1811 2K

Chemistry of Western Atlantic Precipitation at the Mid-Atlantic Coast and on Bermuda, W85-00520 1802 2K

Composition of Precipitation in Remote Areas of the World, W85-00514 1802 2K

Composition of Precipitation on Amsterdam Island, Indian Ocean, W85-04503 1809 5B

## AUTHOR INDEX

**GALLOWAY, J. N.**

Modeling the Effects of Acid Deposition: Assessment of a Lumped Parameter Model of Soil Water and Streamwater Chemistry, W85-04792	1809 5C	GAO, H. Nitrification of Anaerobically Treated Coal Gasifier Effluent, W85-02587	1805 5D	GARDNER, R. H. Fates of Aromatics Model (FOAM): Description, Application, and Analysis, W85-00260	1801 5B
Organic Acidity in Precipitation of North America, W85-04499	1809 5B	GARASEVICH, I. G. Comparison of Biological Indication Methods Exemplified by North Ukrainian Water Bodies, W85-04100	1808 2H	Parameter Constraints in a Stream Ecosystem Model: Incorporation of a Priori Information in Monte Carlo Error Analysis, W85-01302	1803 2H
Rocky Mountain Acidification Study, W85-06359	1812 5C	GARAVAGLIA, C. Importance of Macrophytes in Two Lakes with Different Trophic Degree: Lake Comabbio and Lake Monate (Province of Varese, Northern Italy), W85-04564	1809 2H	GARDNER, R. L. Effects of Electricity Rates and Rate Structures on Pump Irrigation: An Eastern Colorado Case Study, W85-04752	1809 3F
GALLUP, J. E. Removal Pathways and Fate of Organic Priority Pollutants in Treatment Systems: Chemical Considerations, W85-05294	1810 5D	GARAY, E. Comparative Study on <i>Salmonella</i> Isolation from Sewage-Contaminated Natural Waters, W85-01150	1803 5A	GARDNER, T. J. Elemental Residence Times in Acton Lake, Ohio, W85-02241	1805 2H
GALOWAY, J. N. Gran's Titrations: Inherent Errors in Measuring the Acidity of Precipitation, W85-05774	1810 5A	GARBARINO, J. R. R-Plasmid Transfer in <i>Salmonella</i> spp. Isolated from Wastewater and Sewage-Contaminated Surface Waters, W85-02604	1805 5B	GARDNER, W. D. Effect of Tilt on Sediment Trap Efficiency, W85-06850	1812 7B
GALVIN-CHABRIERE, N. Study of Periphyton in a Polluted Section of a Varoie River, the Argens. Spatial Evolution of the Algal Population During a Period of Intense Pollution (Etude du periphyton d'un secteur pollue d'une riviere varoise, l'Argens. Evolution spatiale du peuplement algal en periode d'intense pollution), W85-02327	1805 5C	GARBER, K. J. Internal Phosphorus Loading to Shallow Edinboro Lake in Northwestern Pennsylvania, W85-06006	1811 2H	GARDNER, W. R. Water Relations of Saturated Bentonite: Some Effects of Temperature and Solution Salt Concentration, W85-05186	1810 2G
GAMBHIR, S. P. Waste Treatment in an Automotive Component Complex, W85-05246	1810 5D	GARBER, W. F. Energy Use Considerations in the Activated Sludge Process in Los Angeles, U.S.A., W85-03642	1807 5D	GARDNER, W. S. Sediment Trap Studies in Lake Michigan: Resuspension and Chemical Fluxes in the Southern Basin, W85-02892	1806 2J
GAMBOLATI, G. Groundwater Response under an Electronuclear Plant to a River Flood Wave Analyzed by a Nonlinear Finite Element Model, W85-02157	1804 2F	GARCIA, J. Interaction Between Interstitial Water and Sediment in Two Cores of Lac Leman, Switzerland, W85-02084	1804 2H	GARG, S. K. Interpretation of Downhole Data and Development of a Conceptual Model for the Redondo Creek Area of the Baca Geothermal Field, W85-03164	1806 6B
GAMILIEL, A. Motion of the Seawater Interface in a Coastal Aquifer by the Method of Successive Steady States, W85-05535	1810 2F	Manganese Cycle in Lac Leman, Switzerland: The Role of Metallogenium, W85-02081	1804 2H	Pressure Buildup Analysis for Two-Phase Geothermal Wells: Application to the Baca Geothermal Field, W85-05800	1810 2F
GAMMAGE, R. B. DUVAS As a Real-Time, Field-Portable Wastewater Monitor for Phenolics, W85-01159	1803 7B	GARDE, R. New Continuously Monitored Collection System for Liquid Industrial Wastes, W85-03872	1808 8A	Pressure Transient Analysis for Two-Phase Geothermal Wells: Some Numerical Results, W85-02163	1804 2F
GAMMON, P. H. Elastic Constants of Artificial and Natural Ice Samples by Brillouin Spectroscopy, W85-03346	1807 2C	GARDNER, B. D. Distribution of Economic Rents When Irrigated Farmland is Leased: The Case of the Imperial Valley, California, W85-05330	1810 6F	GARNAS, R. L. Acute Toxicity, Bioconcentration, and Persistence of AC 222,705, Benthiocarb, Chloryprifos, Fenvalerate, Methyl Parathion, and Permethrin in the Estuarine Environment, W85-G0163	1801 5C
GANPATI, P. N. Pollution Effects on Ecobiology of Benthic Polychaetes in Visakhapatnam Harbour (Bay of Bengal), W85-00803	1802 5C	GARDNER, D. Inefficient Well May be True Culprit in High Cost of Pumping Water, W85-01034	1802 8A	GARNER, L. Subchronic Toxicity of Chlorine Dioxide and Related Compounds in Drinking Water in the Nonhuman Primate, W85-01204	1803 5F
GANCZARCZYK, J. J. Application of Carrier/Activated Sludge Process for Treatment of Phenolic Wastewater, W85-05552	1810 5D	Innovation, Conservation to Keep Ogallala from Running Dry, W85-01036	1802 3F	GARNER, M. M. Conservation District Role in Nonpoint Pollution Control, W85-05948	1811 5G
Removal of Heavy Metals from Wastewater by Application of Hot Iron Desulfurization Slag, W85-07108	1812 5D	Rancher Takes Bull by Horns; Builds Power Plant and Converts to Pivots, W85-01035	1802 4A	GARRARD, L. A. Effects of Heavy Metals on Water Hyacinths ( <i>Eichornia crassipes</i> (Mart.) Solms), W85-00880	1802 5D
GANDJAR, I. G. Trace Determination of Inorganic and Organic Tin in Water by Hydride Atomic Absorption Spectrometry (Dosage de l'etain Mineral et Organique en Traces dans les eaux par Spectrophotometrie d'absorption Atomique avec Generation-Decomposition d'hydrides), W85-04000	1808 5A	GARDNER, D. W. Analysis of the Chemical Properties of Rain in Minnesota, W85-00246	1801 2K	GARRATT, J. R. Measurement of Evaporation by Meteorological Methods, W85-06671	1812 2D
GANTZER, C. J. Electronic Discriminator to Eliminate the Problem of Horizontal Raindrop Drift, W85-05193	1810 7B	GARDNER, J. S. Process and Discharge Estimation in Ephemeral Channels, Canadian Rocky Mountains, W85-03196	1806 2E	GARRETT, M. T. Improving the Performance of Houston's Southwest Wastewater Treatment Plant, U.S.A., W85-03653	1807 5D
GARSKE, E. E. Laboratory Evaluation of Ground Water Sampling Mechanisms, W85-00364	1801 5A	GARDNER, L. R. Summertime Net Transport of Dissolved Oxygen, Salt and Heat in a Salt Marsh Basin, North Inlet, S.C., W85-03108	1806 2L		

## AUTHOR INDEX

GAZIEV, E. G.

<b>GARTON, C. E.</b> Aquatic Macrophyte Vegetation of an Isolated Island Lake Adjacent to Lake Nipigon, Ontario: A Comparative Study After a Fifty-six Year Interval, W85-04661	1809 2H	<b>GASSMAN, E.</b> Singlet Oxygen in Surface Waters - Part I: Furfuryl Alcohol as a Trapping Agent, W85-01964	1804 2K	<b>GAULT, N. F. S.</b> Spatial and Temporal Trends in Heavy Metal Concentrations in Mussels from Northern Ireland Coastal Water, W85-01901	1804 .5A
<b>GARTON, R. R.</b> Avoidance of Copper and Nickel by Rainbow Trout as Monitored by a Computer-Based Data Acquisition System, W85-01624	1803 5C	<b>GASTON, J. M.</b> Evaluation of Public Notification Requirements in California, W85-06583	1812 6E	<b>GAUNTT, H. M.</b> Case Study of Design Procedures for a Land Treatment of Wastewater System, Dalton, Georgia, W85-05393	1810 5D
<b>GARTSIDE, P. S.</b> Biological Health Risks Associated with the Composting of Wastewater Treatment Plant Sludge, W85-04291	1808 5E	<b>GAT, J. R.</b> Short Meromictic Episode in the Dead Sea: 1979-1982, W85-02612	1805 2H	<b>GAUR, J. P.</b> Water Pollution - Phycological Perspectives, W85-06266	1812 5C
<b>GARVEN, G.</b> Theoretical Analysis of the Role of Groundwater Flow in the Genesis of Stratabound Ore Deposits. 1. Mathematical and Numerical Model, W85-03672	1807 2F	<b>GATES, C. E.</b> Histopathology of <i>Mercenaria mercenaria</i> as an Indicator of Pollutant Stress, W85-05899	1811 5C	<b>GAUSS, J. D.</b> Acute Toxicity of Copper to Three Life Stages of <i>Chironomus tentans</i> as Affected by Water Hardness-Alkalinity, W85-04946	1809 5C
<b>GARVIN, J. W.</b> Development of a Sludge/Refuse Co-Disposal Program, W85-05367	1810 5E	<b>GATES, J. S.</b> Ground-Water Reconnaissance of the Central Weber River Area, Morgan and Summit Counties, Utah, W85-03939	1808 2F	<b>GAUTHIER, J. J.</b> Adaptation of an Industrial Activated Sludge Process to the Removal of Cyanide, W85-05418	1810 5D
<b>GARVINE, R. W.</b> Observations of Wind-Induced, Subtidal Variability in the Delaware Estuary, W85-03409	1807 2L	<b>GATES, M. A.</b> Contribution of Ciliated Protozoa to the Planktonic Biomass in a Series of Ontario Lakes: Quantitative Estimates and Dynamical Relationships, W85-01045	1802 2H	<b>Biological Treatment of High-Strength Coke-Plant Wastewater,</b> W85-05440	1810 5D
<b>GARWOOD, E. A.</b> Nitrate Leaching from Grassland, W85-02404	1805 5G	<b>GATES, T. K.</b> Designing Furrow-Irrigation Systems for Improved Seasonal Performance, W85-06093	1811 3F	<b>GAUTHIER, M. F.</b> Hydraulic Problems Posed by Direct-Cycle TES Stations Offshore (Problemes Hydrauliques Poses par les Centrales ETM a Cycle Direct au Large), W85-00386	1801 8C
<b>GARZA, S.</b> Projected Effects of Proposed Chloride-Control Projects on Shallow Ground Water-Preliminary Results for the Wichita River Basin, Texas, W85-00026	1801 5G	<b>GATES, W. E.</b> Algorithm For Mixing Problems in Water Systems, W85-05780	1810 6C	<b>GAUTNEY, S. P.</b> Targeted Chlorination is Viable and Environmentally Acceptable, W85-05916	1811 5F
<b>GARZONEtti, G. A.</b> Primary Effluent Filtration. The Warminster Experience, W85-05487	1810 5D	<b>GATTI, R. C.</b> Duck Breeding Ecology and Harvest Characteristics on Grand River Marsh Wildlife Area, W85-06903	1812 2H	<b>GAUTREAUX, C. A.</b> Co-Treatment of Water Softening and Wastewater Sludges, W85-00609	1802 5E
<b>GASCHIGNARD, O.</b> Transverse Distribution of Benthic Macroinvertebrates in an Arm of the Rhone (Repartition Transversale des Macroinvertebres Benthiques Dans un Bras du Rhone), W85-00986	1802 2H	<b>GATZ, D. F.</b> Source Apportionment of Rain Water Impurities in Central Illinois, W85-03293	1807 5B	<b>GAVENS, A.</b> Hydrocarbon Accumulation in Freshwater Sediments of an Urban Catchment, W85-02078	1804 5B
<b>GASCOINE, I. S.</b> Development and Use of a Theoretical Mathematical Model for the Medway Estuary, W85-04450	1809 2L	<b>GAUDRY, A.</b> Composition of Precipitation on Amsterdam Island, Indian Ocean, W85-04503	1809 5B	<b>GAVRIILIDIS, L.</b> Boussinesq's Equation Solutions for Semi-Infinite Aquifer, W85-02269	1805 2A
<b>GASCOYNE, M.</b> Trace-Element Partition Coefficients in the Calcite-Water System and Their Paleoclimatic Significance in Cave Studies, W85-00018	1801 2F	<b>GAUDY, A. F.</b> Response of Phenol-Acculturated Activated Sludge Process to Quantitative Shock Loading, W85-05559	1810 5D	<b>GAVRISH, P. D.</b> Calculation of the Seepage of Reservoir Dikes of Pumped-Storage Stations, W85-00444	1801 8B
<b>GASPAR, R.</b> Some Problems About the Soil Erosion in the Vrancea Subcarpathians (Quelques Problèmes sur L'Erosion des Sols dans les Subcarpates de Vrancea), W85-06420	1812 2J	<b>GAUDY, A. F. JR.</b> Comparison of Activated Sludge Response to Quantitative, Hydraulic and Combined Shock for the Same Increases in Mass Loading, W85-05278	1810 5D	Dynamics of the Formation of an Ice Prism on Reservoir Slopes of a Pumped-Storage Station, W85-00441	1801 8A
<b>GASPARD, B.</b> Waterborne Disease in Colorado: Three Years' Surveillance and 18 Outbreaks, W85-05521	1810 5F	<b>GAUDY, A. F. JR.</b> Predictive Model for Treatment of Phenolic Wastes by Activated Sludge, W85-05279	1810 5D	Wind and Wave Regimes of the Kiev Pumped-Storage Station Reservoir, W85-00449	1801 4A
		<b>GAUDY, A. F. JR.</b> Selection of Growth Rate Model for Activated Sludge Treating Phenol, W85-06735	1812 5D	<b>GAY, L. W.</b> Field Study of Plant Resistance to Water Flow in Alfalfa, W85-03360	1807 2I
				<b>GAYNARD, T. J.</b> Plant Zonation and the Effects of the Spring-Neap Tidal Cycle on Soil Aeration in a Humber Salt Marsh, W85-06369	1812 2L
				<b>GAZAWAY, H. N.</b> Grouting Rehabs Earth Dam, W85-02728	1806 8A
				<b>GAZIEV, E. G.</b> Method of Calculating the Stability of Rock Slopes of Hydraulic Structures, W85-00430	1801 8E

## AUTHOR INDEX

**GAZIEV, E. G.**

Probabilistic Method of Optimizing Surveys When Designing Hydraulic Structures, W85-00467	1801 6A	GEIGER, L. H. Water-Use Computer Programs for Florida, W85-03934	1808 7C	Kahoma Stream Channel Improvement Project, Maui, Hawaii: Hydraulic Model Investigation, W85-06904	1812 4A
Reliability of Rock Foundations of Concrete Dams and Some Recommendations on Their Assessment, W85-05989	1811 8E	GEILING, W. Elevated Planktonic Rotifer Biomass in Acidified Metal-Contaminated Lakes near Sudbury, Ontario, W85-05715	1810 5C	GEORGE, L. Effect of Organic Contamination upon Microbial Distributions and Heterotrophic Uptake in a Cape Cod, Mass., Aquifer, W85-03736	1807 5C
GEAY, A. Changes in the Content of Polyamines and Their Precursors During the Morphogenetic Adaptation in Rape, <i>Brassica napus</i> L. var. <i>oleifera</i> M. a la secheresse (Variations des teneurs en polyamines et leur précurseurs au cours de l'adaptation morphogénétique du Colza, <i>Brassica napus</i> L. var. <i>oleifera</i> M. a la sécheresse), W85-02338	1805 2I	GEISENHEINER, A. Improved Operational Control of Sedimentation Facilities Through the Use of Fiberoptic Sensors (Verbesserte Betriebskontrolle von Sedimentationsanlagen durch Nutzung faseroptischer Sensoren), W85-01882	1804 5D	GEORGE, S. G. Cellular Metal Distribution in the Pacific Oyster, <i>Crassostrea gigas</i> (Thun.) Determined by Quantitative X-Ray Microprobe Analysis, W85-05995	1811 5C
GEDDES, M. C. Limnology of Lake Alexandrina, River Murray, South Australia, and the Effects of Nutrients and Light on the Phytoplankton, W85-03242	1807 2H	GELDREICH, E. E. Bacterial Colonization of Point-of-Use Water Treatment Devices, W85-04834	1809 5F	Interspecies Differences in Heavy Metal Detoxification in Oysters, W85-05896	1811 5C
Seasonal Studies on the Zooplankton Community of Lake Alexandrina, River Murray, South Australia, and the Role of Turbidity in Determining Zooplankton Community Structure, W85-03243	1807 2H	New Medium for the Enumeration and Subculture of Bacteria from Potable Water, W85-04255	1808 5A	Intracellular Control of Cd Concentrations in Marine Mussels, W85-05897	1811 5C
GEE, A. S. Effects of Forestry on Water Quality and Fish in Welsh Rivers and Lakes, W85-06574	1812 5C	GELHAR, L. W. Stochastic Analysis of Unsaturated Flow in Heterogeneous Soils; 1. Statistically Isotropic Media, W85-06499	1812 2G	GEORGES, P. Destruction by Ozone of Amoeba Cysts in Recycled Swimming Pool Water, W85-02725	1806 5D
GEE, D. M. Role of Calibration in Application of HEC-6, W85-06120	1811 2J	Stochastic Analysis of Unsaturated Flow in Heterogeneous Soils; 2. Statistically Anisotropic Media with Variable alpha, W85-06500	1812 2G	Soil Amoebas as Biological Markers to Estimate the Quality of Swimming Pool Waters, W85-07126	1812 5A
GEE, G. W. Sensitivity Analysis Applied to Unsaturated Flow Modeling of a Retorted Oil Shale Pile, W85-05181	1810 2F	W85-06501	1812 2G	GEORGIEV, A. A. Modeling of CO <sub>2</sub> Dynamics in a Body of Freshwater, W85-05159	1810 2H
Weighing Lysimeters for Long-Term Water Balance Investigations at Remote Sites, W85-02879	1806 2G	GELL, K. Interaction between an Arch Dam and its Foundation (Wechselwirkung zwischen Staumauer und Untergrund), W85-03256	1807 8A	GERAGHTY, J. J. Techniques for Protecting Groundwater Quality, W85-00698	1802 5G
GEEN, G. H. Acephate in Rainbow Trout ( <i>Salmo gairdneri</i> ): Acute Toxicity, Uptake, Elimination, W85-00169	1801 5C	SELLER, A. Anaerobic Fermentation of Sulphite Pulp Mill Effluents, W85-07012	1812 5D	GERARD, C. J. Effect of Furrow Diking, Subsoiling, and Slope Position on Crop Yields, W85-06186	1812 3F
In Vitro Effects of Acephate on Acetylcholinesterase Activity in the Brain and Gills of Rainbow Trout, <i>Salmo gairdneri</i> , W85-00171	1801 5C	SELLER, W. Toxicity Warning Monitor Using the Weakly Electric Fish, <i>Gnathonemus petersi</i> , W85-03546	1807 5A	GERARD, R. Microorganism Survival in an Ice-Covered River, W85-01708	1804 5B
GESEY, G. G. Copper-Binding Characteristics of Exopolymers from a Freshwater-Sediment Bacterium, W85-06144	1811 2H	GENSEMER, M. K. Successful Water Quality Planning: An Areawide Perspective, W85-05952	1811 5G	GERASHCHENKO, I. L. Study of Sediment Transport Routes on the Basis of Dynamic Structures of Bottom Sediments, W85-05148	1810 2J
GEETHANJALI, K. Effect of Cupric Chloride on Oxidative Metabolism in the Freshwater Teleost, <i>Tilapia mossambica</i> , W85-00271	1801 5C	GENSLER, W. G. Development of a Predictive Irrigation Scheduling Index Using Electrophotograms, W85-06326	1812 3F	GERASIMENKO, M. I. Dynamics and Composition of Silt Deposits in the North Donets-Donbas Canal, W85-04101	1808 2J
GEHRS, C. W. Effects of Acridine and Temperature on the Survival, Development, Growth, and Reproduction of <i>Diaptomus clavipes</i> Schacht, W85-03222	1807 5C	GENTIL, S. Predictive or Explanatory Models for Aquatic Ecosystems, W85-01429	1803 2H	GERBA, C. P. Detection of Enteric Viruses in Treated Drinking Water, W85-02136	1804 5F
GEIGER, C. O. Water Resources Data, Kansas Water Year 1982, W85-01932	1804 2E	GEORGAKAKOS, K. P. Hydrologically Useful Station Precipitation Model; 1. Formulation, W85-03557	1807 2B	Simple Field Method for Concentration of Viruses from Large Volumes of Water, W85-02603	1805 7B
GEIGER, E. L. Blue Crab Processing Plant Effluent Treatment, W85-01741	1804 5D	Hydrologically Useful Station Precipitation Model; 2. Case Studies, W85-03558	1807 2B	Use of Microorganisms as Ground-Water Tracers: A Review, W85-00299	1801 5A
GEIGER, J. F. Filling and Emptying System, Walter Bouldin Lock, and Lock Culvert Valve for Coosa River Waterway, Alabama, W85-06896	1812 8B	Quantitative Precipitation Forecast Techniques for Use in Hydrologic Forecasting, W85-03864	1808 2A	Virus Persistence in Groundwater, W85-06140	1811 5B
GERDING, T. J. Interaction of Groundwater and Basalt Fissure Surfaces and Its Effect on the Migration of Actinides, W85-06774	1812 5B	GERHARDT, R. A. Landfill Leachate Migration and Attenuation in the Unsaturated Zone in Layered and Non-layered Coarse-Grained Soils, W85-00366	1801 5B		

## AUTHOR INDEX

GIEZENDANNER, W.

**GERIKE, P.**  
Biodegradability Testing of Poorly Water Soluble Compounds, W85-01957 1804 5B

**GERMAN, E. R.**  
Effects of Recharge from Drainage Wells on Quality of Water in the Floridan Aquifer in the Orlando Area, Central Florida, W85-00843 1802 5G

**GERMINE, M.**  
Asbestos in Lake and Reservoir Waters of Staten Island, New York: Source, Concentration, Mineralogy, and Size Distribution, W85-06160 1811 5B

**GERODETTI, M.**  
Drag Coefficient on Pyramidal Baffle Blocks, W85-05819 1810 8B

**GEROFI, J. P.**  
Simple, More Accurate Criterion For Economic Evaluation of Desalination Projects, W85-01220 1803 3A

**GERSBERG, R. M.**  
Use of Artificial Wetlands to Remove Nitrogen Compounds from Wastewater, W85-01978 1804 5D

**GERSHEY, R. M.**  
Application of Ion-Exchange Chromatography with an Ion-Selective Electrode Detector to Iodine Determination in Natural Waters, W85-04654 1809 5A

**GERSTL, Z.**  
Sorption of Organic Substances by Soils and Sediments, W85-01442 1803 5B

**GETSINGER, K. D.**  
Quiescence, Growth and Senescence of *Egeria densa* in Lake Marion, W85-04858 1809 2H

**GEVER, H.**  
Prediction of Ecotoxicological Behaviour of Chemicals: Relationship between n-Octanol/Water Partition Coefficient and Bioaccumulation of Organic Chemicals by Alga Chlorella, W85-01959 1804 5B

**GEYH, M. A.**  
Hydrogeological Study With Environmental Isotopes of Karst Waters of the Eastern Swabian Alb and the Danube Ried (Hydrogeologische Studie mit Umweltisotopen an Karstwassern der Ostlichen Schwabischen Alb und des Donaurieds (Baden-Württemberg und angrenzendes Bayern)), W85-00765 1802 2F

**GHABOSSI, J.**  
Seismic Hydrodynamic Forces on Rock Slopes, W85-02262 1805 8E

**GHANNUDI, S. A.**  
Study of a Shallow Carp (*Cyprinus carpio L.*) Pond and its Relevance to Inland Fish Farming in Libyan Jamahiriya, W85-06486 1812 8I

**GHASSEMI, M.**  
Characteristics of Leachates from Hazardous Waste Landfills, W85-02118 1804 5B

**GHENOVICI, A.**  
New Canal on Europe's Map: The Danube-Black Sea Canal, W85-06419 1812 6B

**GHERINI, S. A.**  
Development and Calibration of the Integrated Lake-Watershed Acidification Study Model, W85-05321 1810 2K

Hydrologic Analyses of Acidic and Alkaline Lakes, W85-03993 1808 2H

**GHIORSE, W. C.**  
Determination of Microbial Cell Numbers in Subsurface Samples, W85-04636 1809 5A

**GHOSAL, J. K.**  
Reverse-Osmosis Membrane for Testing Coal-Liquefaction Wastewater, W85-00284 1801 5D

**GHOSH, M. M.**  
Polyelectrolyte Selection for Water Treatment, W85-06587 1812 5F

**GHOSH, R. K.**  
Note on Lewis-Kostiakov's Infiltration Equation, W85-06746 1812 2G

**GHOSH, S. K.**  
Effects of Feeding Rates on Production of Common Carp and Water Quality in Paddy-cum-Fish Culture, W85-02236 1805 5B

**GIANESELLA-GALVAO, S. M. F.**  
Primary Production in Ten Reservoirs in Southern Brazil, W85-06008 1811 2H

**GIANI, N.**  
Riou Mort, a Tributary of the Lot Polluted by Heavy Metals. III. General Faunistic Study (Le Riou Mort, affluent du Lot, pollué par métaux lourds. III. Etude faunistique générale), W85-00090 1801 5C

**GIATTINA, J. D.**  
Avoidance of Copper and Nickel by Rainbow Trout as Monitored by a Computer-Based Data Acquisition System, W85-01624 1803 5C

**GIBBLE, J. P.**  
Guide to the Selection of Materials for Monitoring Well Construction and Ground-Water Sampling, W85-05350 1810 7B

Laboratory Evaluation of Ground Water Sampling Mechanisms, W85-00364 1801 5A

Sampling for Organic Contaminants in Ground-water, W85-00701 1802 5A

**GIBBONS, H. L.**  
Comparison of Periphyton Growth on Artificial and Natural Substrates in the Upper Spokane River, W85-04666 1809 2H

Removal and Inactivation of Bacteria During Alum Treatment of a Lake, W85-02602 1805 5G

**GIBBONS, J. W.**  
Behavioral Thermoregulation of Largemouth Bass, *Micropterus salmoides*, and Bluegill, *Lepomis macrochirus*, in a Nuclear Reactor Cooling Reservoir, W85-01495 1803 5C

**GIBBONS, W. J.**  
Water Quality of Lake Arlington on Village Creek, North-Central Texas, 1973 to 1981, W85-02042 1804 2H

**GIBBS, A. G.**  
Numerical Procedure for Obtaining the Mean Solution and Variance of the Two-Dimensional Stochastic Convection Equation, W85-04159 1808 2A

**GIBBS, M. M.**  
Accelerated Eutrophication in a New Zealand Lake: Lake Rotoiti, Central North Island, W85-06794 1812 2H

Aspects of the Limnology of Lake Rotongaio, W85-00807 1802 2H

**GIRBS, J.**  
Applying Analytical Techniques to Solve Groundwater Contamination Problems, W85-05478 1810 5G

**GIBSON, A. C.**  
Simulation for Harvesting of Aquatic Plants, W85-06922 1812 4A

**GIBSON, C. E.**  
Variation of Calcium, Magnesium, Sodium and Potassium Concentration, pH and Conductivity in Lakes in Northern Ireland, W85-02894 1806 2H

**GIBSON, J. H.**  
Rocky Mountain Acidification Study, W85-06359 1812 5C

**GIBSON, R. A.**  
Use of a Simple Water Column Sampler to Monitor Chemical and Biological Conditions in Shallow Waters, W85-01239 1803 7B

**GIBSON, R. J.**  
Interaction between Discharge and Populations of Parr (*Salmo salar*) of the Matamec River, Quebec (Interaction Entre le Débit et les Populations de Tacons (*Salmo salar*) de la Rivière Matamec, Québec), W85-01492 1803 2H

**GHCHURU, M.**  
Saline Irrigation Water: Effects on Soil Chemical and Physical Properties, W85-04618 1809 3C

**GIDDINGS, J. M.**  
Persistence of Phenols in Aquatic Microcosms Receiving Chronic Inputs of Coal-Derived Oil, W85-05700 1810 5B

**GIESECKE, J.**  
Dynamic Processes in Pipeline Systems and their Consequences (Dynamische Vorgänge in Rohrleitungen und ihre Auswirkung), W85-03265 1807 8C

Multi-Purpose Projects for Water Storage and Aqueducts in Baden-Württemberg (Mehrzweckprojekte für Wasserspeicherung und Wasserberieitung in Baden-Württemberg), W85-03443 1807 8A

**GIESY, J. P.**  
Distribution of Dissolved Organic Carbon and Metal-Binding Capacity Among Ultrafilterable Fractions Isolated from Selected Surface Waters of the Southeastern United States, W85-03979 1808 2K

Metal Speciation in Surface Waters of the Great Lakes Region, W85-01811 1804 5A

Thermal Effluent as a Sporadic Cornucopia: Effects on Fish and Zooplankton, W85-03315 1807 5C

**GIESY, J. P. JR.**  
Photoenhanced Toxicity of Anthracene to Juvenile Sunfish (*Lepomis Spp.*), W85-06439 1812 5C

**GIEZENDANNER, W.**  
Aeration of the Discharge Jet in Large Flood-Control Facilities (Die Belüftung des Abflussstrahls bei grossen Hochwasserentlastungsanlagen), W85-01262 1803 8A

## AUTHOR INDEX

**GIGER, W.**

**GIGER, W.**  
Analytical Fractionation of Dissolved Organic Matter in Water Using On-Line Carbon Detection,  
W85-04298 1808 2K

Determination of Nitrilotriacetic Acid in Water by High Resolution Gas Chromatography,  
W85-03887 1808 5A

Groundwater Contamination by Volatile Halogenated Alkanes: Abiotic Formation of Volatile Sulfur Compounds under Anaerobic Conditions,  
W85-06148 1811 5B

**GIL'MANOV, R. A.**  
Effect of Shock Waves During Underwater Borehole Blasting,  
W85-05025 1810 8H

**GILBERT, A. H.**  
Economics of Acid Rain: An Invisible Hand of Control,  
W85-01666 1804 5C

**GILBERT, B. K.**  
Highlights of the 1983 Federal-State Cooperative Water Resources Program,  
W85-01829 1804 9D

**GILBERT, R.**  
Contemporary Sedimentary Environments on Baffin Island, N.W.T., Canada: Reconnaissance of Lakes on Cumberland Peninsula,  
W85-00110 1801 2H

**GILBERT, T. R.**  
Chronology of Lead Pollution Contained in Banded Coral Skeletons,  
W85-02472 1805 5B

**GILBERT, T. W.**  
Speciation of Arsenic and Cadmium Compounds by Reversed-Phase Ion-Pair LC with Single-Wavelength Inductively Coupled Plasma Detection,  
W85-03865 1808 5A

**GILDING, B. H.**  
Coupling of Groundwater and Open-Channel Flow,  
W85-01615 1803 2A

**GILES, I. A.**  
Water Resources Data, Alabama, Water Year 1982,  
W85-01939 1804 2E

**GILES, J. E.**  
Hydro System Planning of the TVA,  
W85-01547 1803 6A

**GILES, M. A.**  
Electrolyte and Water Balance in Plasma and Urine of Rainbow Trout (*Salmo gairdneri*) during Chronic Exposure to Cadmium,  
W85-03603 1807 5C

Osmoregulatory and Hematological Responses of Rainbow Trout (*Salmo gairdneri*) to Extended Environmental Acidification,  
W85-03604 1807 5C

**GILEWICZ, M.**  
Effects of Petroleum Hydrocarbons on the Cytochrome P450 Content of the Mollusc Bivalve *Mytilus galloprovincialis*,  
W85-01367 1803 5C

**GILG, B.**  
5-Year-Dam-Inspection. Aims and Procedures; Geodetic Deformation Measurements (Ziel und Vorgehen bei der 5-Jahres-Expertise Sowie Hinweise auf die Bedeutung der Geodatischen Deformationsmessung),  
W85-01271 1803 4A

**GILKESEN, R. H.**  
Hydrogeologic and Geochemical Studies of Selected Natural Radioisotopes and Barium in Groundwater in Illinois,  
W85-05122 1810 2K

**GILL, M. A.**

Bank Storage Characteristics of a Finite Aquifer due to Sudden Rise and Fall of River Level,  
W85-05536 1810 2F

Time Lag Solution of the Muskingum Flood Routing Equation,  
W85-06646 1812 2E

**GILL, T. S.**

Erythrocytic and Leukocytic Responses to Cadmium Poisoning in a Freshwater Fish, *Puntius conchonius Ham.*,  
W85-06167 1811 5C

**GILLAN, M. B.**

Planktonic and Benthic Bacterial Populations of Lough Neagh,  
W85-05807 1810 2H

**GILLESPIE, D.**

Piezometer-Friction Cone Investigation at a Tailings Dam,  
W85-03428 1807 8A

**GILLESPIE, G. R.**

Anaerobic-Aerobic Treatment of a Wheat Starch Plant Effluent: A Case History,  
W85-05564 1810 5D

**GILLESPIE, P. A.**

Effects of Mussel Aquaculture on the Nitrogen Cycle and Benthic Communities in Kenepuru Sound, Marlborough Sounds, New Zealand,  
W85-06211 1812 2L

**GILLETT, J. R.**

Irrigation System Capacities for Corn Production in Nebraska,  
W85-01187 1803 3F

**MODEL AND PRODUCTION FUNCTION FOR IRRIGATION MANAGEMENT**

W85-01508 1803 3F

Sprinkler Droplet Size Distribution Estimation from Single Leg Test Data,  
W85-04745 1809 8C

**GILLHAM, R. W.**

Comparative Study of Specific Yield Determinations for a Shallow Sand Aquifer,  
W85-03156 1806 2F

**DIFFUSION OF NONREACTIVE AND REACTIVE SOLUTES**

through Fine-Grained Barrier Materials,  
W85-03427 1807 5E

**LABORATORY STUDIES OF THE EFFECTS OF THE CAPILLARY FRINGE ON STREAMFLOW GENERATION**

W85-01342 1803 2E

**GILLIAM, W. T.**

Dietary Accumulation of PCBs from a Contaminated Sediment Source by a Demersal Fish (*Leiostomus xanthurus*),  
W85-03690 1807 5B

Dietary Accumulation of PCBs from a Contaminated Sediment Source by a Demersal Fish Species (*Leiostomus xanthurus*),  
W85-05600 1810 5C

**GILLIES, J. C.**

Biological and Physicochemical Characteristics of the Ross River Dam, Townsville,  
W85-00783 1802 2H

**GILLILAND, M. W.**

Water-Energy Linkages in Nebraska,  
W85-02983 1806 6D

**GILLIOM, R. J.**

Effect of Censoring Trace-Level Water-Quality Data on Trend-Detection Capability,  
W85-01125 1803 7C

Estimation of Nonpoint Source Loadings of Phosphorus for Lakes in the Puget Sound Region, Washington,  
W85-00038 1801 5B

Relationships Between Water Quality and Phosphorus Concentrations for Puget Sound Region Lakes,  
W85-01379 1803 5C

**GILLROY, E. J.**

Effect of Censoring Trace-Level Water-Quality Data on Trend-Detection Capability,  
W85-01125 1803 7C

**GILMAN, R. H.**

Boiling of Drinking-Water: Can a Fuel-Scarce Community Afford It,  
W85-06217 1812 5F

**GILMER, R. W.**

Physical, Chemical, and Biological Characteristics of a Stratified, Saline, Sulfide Lake in Palau,  
W85-01593 1803 2H

**GILMORE, D.**

1,2-Dichloropropane (1,2-D)-1,3-Dichloropropene (1,3-D),  
W85-06332 1812 5C

**GILROY, E. J.**

Methods of Fitting a Straight Line to Data: Examples in Water Resources,  
W85-03136 1806 6A

**GIMENEZ, G.**

Summary of Research Work on Cavitation (Essai de synthese des recherches sur la cavitation),  
W85-03586 1807 8B

**GIMINGHAM, C. H.**

Ecological Effects of Heather Burning: I. Water Infiltration, Moisture Retention and Porosity of Surface Soil,  
W85-03739 1807 2G

**GINGRICH, D. J.**

Zinc and Cadmium Metabolism in Euglena gracilis: Metal Distribution in Normal and Zinc-Deficient Cells,  
W85-05882 1811 5C

**GINN, T. R.**

Statistical Exploration of the Relationships of Soil Moisture Characteristics to the Physical Properties of Soils,  
W85-01341 1803 2G

**GINOCCHIO, J. C.**

Corrosion in the Swiss Drinking Water Distribution Systems,  
W85-06810 1812 5F

**GINZBURG, L. K.**

Lowering the Water Table with Radial Drains,  
W85-06841 1812 4B

**GIORDANI, P.**

Heavy Metals in Sediments from Different Environments of a Northern Adriatic Sea Area, Italy,  
W85-03981 1808 5B

**GIRALDEZ, J. V.**

Infiltration in Swelling Soils,  
W85-04790 1809 2G

**GIRARD, G.**

Suggestion for a Coupled Model of Surface and Groundwater Simulation on a Watershed (Proposition d'un modèle couple pour la simulation conjointe des écoulements de surface et des écoulements souterrains sur un bassin hydrologique),  
W85-02354 1805 2A

**GIRI RAO, L. G.**

Modification of Irrigation Requirement of Wheat Through Mulching and Foliar Application of Transpiration Suppressants,  
W85-05923 1811 3F

## AUTHOR INDEX

GOHEEN, M.

<b>GIROD, K.</b>				
Problems in Reconstructing Gravity Dams - Stress-Deformation Analysis for an Added Concrete Coating (Probleme der Rekonstruktion von Gewichtsstaumauern-Spannungs-Verformungsanalyse f <u>u</u> Einen Vorsatzbetonmantel), W85-03452	1807	8A		
<b>GIROUARD, G. G.</b>				
Water Resources Data, Massachusetts and Rhode Island, Water Year 1982, W85-01935	1804	2E		
<b>GIRTON, C.</b>				
Ecological Monitoring of Aqueous Effluents from Petroleum Refineries, W85-05582	1810	5A		
<b>GISLASON, J. C.</b>				
Aquatic Insect Abundance in a Regulated Stream Under Fluctuating and Stable Diel Flow Patterns, W85-05880	1811	2H		
<b>GISSENDER, J. W.</b>				
Water Resources Data, South Carolina, Water Year 1982, W85-01937	1804	2E		
<b>GISSEK, M.</b>				
Competition Versus Optimal Control in Groundwater Pumping when Demand is Nonlinear, W85-02141	1804	4B		
<b>GITLIN, H. M.</b>				
Design of Drip Irrigation Lateral Length on Uniform Slopes, W85-05929	1811	3F		
<b>GIUSTI, R. A.</b>				
Health Effects Among Newborns After Prenatal Exposure to ClO <sub>2</sub> -Disinfected Drinking Water, W85-01203	1803	5F		
<b>GJESSING, E.</b>				
Acute Toxicity and Chemical Characteristics of Moderately Polluted Runoff from Highways, W85-00745	1802	5C		
Effect of Highway Runoff on Lake Water Quality, W85-00747	1802	5B		
<b>GJESSING, E. T.</b>				
Electrocoagulation of Potable Water, W85-02906	1806	5F		
Removing Aquatic Humus from Norwegian Lakes, W85-06586	1812	5F		
<b>GJESSING, Y.</b>				
Marine and Non-Marine Contribution to the Chemical Composition of Snow at the Riiser-Larsenisen Ice Shelf in Antarctica, W85-01087	1802	2K		
<b>GLANTZ, M. H.</b>				
Ogallala Aquifer and Carbon Dioxide: Comparison and Convergence, W85-03203	1806	6D		
<b>GLASBY, G. P.</b>				
Reconnaissance Survey of the Mineralogy and Geochemistry of some New Zealand Lake and Nearshore Sediments, W85-00809	1802	2H		
<b>GLASE, M. S.</b>				
Partitioning of Phosphorus Between Particles and Water in a River Outflow, W85-02075	1804	2H		
<b>GLASER, P. H.</b>				
Vegetation Patterns in the North Black River Peatland, Northern Minnesota, W85-05685	1810	2H		
<b>GLASS, G. E.</b>				
Environmental Law and Policy versus the Hydrocycle, W85-00920	1802	6E		
<b>Modeling Impacts of Acid Precipitation for Northeastern Minnesota, W85-05320</b>	1810	2K	<b>GODALL, J.</b>	
<b>U. S./ Canada Aquatic Impacts Assessment: Integration of Experimental Studies, Monitoring and Modeling of Acidic Deposition Effects, W85-05322</b>	1810	2A	Limnology of the Lago Grande de Estanya (Huesca) (Limnologia del Lago Grande de Estanya (Huesca)), W85-05746	1810 2H
<b>GLASSMAN, C. A.</b>				
Composition and Possible Origin of Detrital Material in Streams, W85-04827	1809	2J	<b>GODDARD, J. B.</b>	
<b>GLATTIFELDER, A. H.</b>				Storm Water Detention/Retention: A New Solution, W85-00737
Decentralized Hydropower Control, W85-01548	1803	6A	1802 4A	
<b>GLAUBIG, B. A.</b>				
Water, Salinity, and Nitrate Relations of a Citrus Watershed Under Drip, Furrow, and Sprinkler Irrigation, W85-04346	1808	3F	<b>GODFREE, A. F.</b>	
<b>GLAZUNOV, E. M.</b>				Destruction of Pathogens and Parasites in Sewage Sludge by Chemical Means, W85-04592
Cast Concretes with Frostproofing Additives in Underground Construction, W85-00463	1801	8F	1809 5E	
<b>GLEASON, T. L. III</b>				
Intense Methods of Winter Concreting of Underground Hydraulic Structures in the Far North, W85-00494	1801	8F	<b>GODSHALK, G. L.</b>	
<b>Utilization of Municipal Wastewater and Sludge on Land, W85-00679</b>	1802	5E	Pyrolysis Mass Spectrometry of Some <i>Scirpus</i> Species and Their Decomposition Products, W85-01591	
<b>GLEBE, B. D.</b>			1803 2H	
Fertilization Success and Sperm Motility of Atlantic Salmon ( <i>Salmo salar</i> L.) in Acidified Water, W85-05712	1810	5C	<b>GODSY, E. M.</b>	
<b>GLENN, S.</b>			Degradation of Phenolic Contaminants in Ground Water by Anaerobic Bacteria: St. Louis Park, Minnesota, W85-00348	
Nonpoint Source Loading of Toxic Substances from Decomposing Crop Residue, W85-00075	1801	5B	1801 5D	
<b>GLIME, J. M.</b>			<b>GOEDE, A. A.</b>	
Effects of Bryophytes on Succession from Alkaline Marsh to Sphagnum Bog, W85-00088	1801	2H	Arsenic in the Dunlin ( <i>Calidris alpina</i> ) from the Dutch Waddenzee, W85-07148	
<b>GLLOOR, R.</b>			1812 5B	
Analytical Fractionation of Dissolved Organic Matter in Water Using On-Line Carbon Detection, W85-04298	1808	2K	<b>Lead and Cadmium in Waders from the Dutch Wadden Sea, W85-06170</b>	
<b>GLOTFELTY, D. E.</b>			1811 5C	
Sediment, Season, and Salinity Effects on Phosphorus Concentrations in an Estuary, W85-06727	1812	5C	Mercury, Selenium, Arsenic and Zinc in Waders from the Dutch Wadden Sea, W85-06169	
<b>GLUTH, G.</b>			1811 5C	
Comparison of Physiological Changes in Carp, <i>Cyprinus carpio</i> , Induced by Several Pollutants at Sublethal Concentrations. I. The Dependency on Exposure Time, W85-06744	1812	5C	<b>GOEL, D. K.</b>	
<b>GLYNN, P. W.</b>			Chemical Composition of Rain Water with Special Reference to Heavy Metals over Lucknow, Uttar Pradesh in 1981, W85-05101	
Occurrence and Toxicity of Herbicides in Reef Building Corals, W85-03313	1807	5C	1810 2K	
<b>GNAUCK, A.</b>			<b>GOEL, K. A.</b>	
DO-Process Models for Shallow Systems. Part 1: Ponds and Lakes, W85-06655	1812	2K	Alachlor Toxicity to a Freshwater Teleost <i>Clarias batrachus</i> , W85-04885	
<b>GOAD, J. A.</b>			1809 5C	
Biomanipulation Experiment in Green Lake, Seattle, Washington, W85-04671	1809	5G	<b>GOEL, P. K.</b>	
<b>GOCKE, K.</b>			Impact of Human Activities on Water Quality - a Case Study of Water Pollution in Jaipur (India), W85-05614	
Degradation of Macromolecular Organic Compounds in a Tropical Lagoon (Cienaga Grande, Colombia) and its Ecological Significance, W85-04907	1809	2L	1810 5B	
<b>GOGOBERIDZE, M. I.</b>			Influence of Water Hyacinth Cover on the Physico-Chemical Characteristics of Water and Phytoplankton Composition in a Reservoir near Jaipur (India), W85-04913	
Risk of Damage and Failure of Earth Dams, W85-04430	1809	8D	1809 5C	
<b>GOHEEN, M.</b>			<b>GOEMAN, T. J.</b>	
Evaluation of Carbamate Toxicity: Acute Toxicity in a Culture of <i>Paramecium multimicronucleatum</i> Upon Exposure to Aldicarb, Carbaryl,			Fish Survival at a Cooling Water Intake Designed to Minimize Mortality, W85-03638	
			1807 6G	
<b>GOERLITZ, D. F.</b>			<b>GOETZL, J.</b>	
Degradation of Phenolic Contaminants in Ground Water by Anaerobic Bacteria: St. Louis Park, Minnesota, W85-00348	1801	5D	Relationships between Physiological Stress and Trace Toxic Substances in the Bay Mussel, <i>Mytilus edulis</i> , from San Francisco Bay, California, W85-01350	
<b>GOETZL, J.</b>			1803 5C	
			<b>GOGOBERIDZE, M. I.</b>	
			Risk of Damage and Failure of Earth Dams, W85-04430	
			1809 8D	
<b>GOHEEN, M.</b>			<b>GOHEEN, M.</b>	
Evaluation of Carbamate Toxicity: Acute Toxicity in a Culture of <i>Paramecium multimicronucleatum</i> Upon Exposure to Aldicarb, Carbaryl,				

## AUTHOR INDEX

**GOHEEN, M.**

and Mexacarbate as Measured by Warburg Respirometry and Acute Plate Assay, W85-06168	1811	5C	GOLLADAY, S. W. Seston Transport in Streams at Coweeta Hydrologic Laboratory, North Carolina, U.S.A., W85-05671	1810	2J
<b>GOLACHOWSKA, J.</b> Phosphorus in the Bottom Sediments of Some Lakes of the World, W85-04612	1809	2H	<b>GOLLAN, T.</b> Responses of Stomata and Leaf Gas Exchange to Vapour Pressure Deficits and Soil Water Content, I. Species Comparisons at High Soil Water Contents, W85-02561	1805	2D
<b>GOLCZ, A.</b> Novel Evaluation of Activated Sludge Process in Chemical Plant, W85-03723	1807	5D	<b>GOLTERMAN, H. L.</b> Geochemistry of the Rhine and the Rhone and Human Impact (La Géochimie du Rhin et du Rhône et L'impact Humain), W85-02059	1804	2H
<b>GOLDBERG, B. S.</b> Aflatoxin Movement in Soil, W85-06719	1812	5B	<b>GOLDBERG, E. D.</b> Metal and Transuranic Records in Mussel Shells, Byssal Threads and Tissues, W85-00666	1802	5A
<b>GOODFELLOW, W. D.</b> Loading Concentration Models for Phosphate in Shallow Lakes, W85-02067	1804	2H	<b>GOODFELLOW, W. L. JR.</b> Uptake, Elimination, and Metabolism of 14C-Picric Acid and 14C-Picramic Acid in the American Oyster ( <i>Crassostrea virginica</i> ), W85-03221	1807	5B
<b>GOLDFARB, W.</b> Water Law, W85-06933	1812	6E	<b>GOMATHINAYAGAM, G.</b> Anaerobic Treatment of Fuel Alcohol Wastewater by Suspended Growth Activated Sludge, W85-05406	1810	5D
<b>GOLDMAN, C. R.</b> Climatic Forcing: Effects of El Niño on a Small, Temperate Lake, W85-03972	1808	2H	<b>GOMEZ-FERRER, R. V.</b> Dissolved Solids Hazards in the South Platte Basin, Vol. I: Salt Transport in the River, W85-00115	1801	5B
Effects of a Massive Swarm of Ants on Ammonium Concentrations in a Subalpine Lake, W85-00417	1801	2H	<b>GOMEZ, G.</b> Modular Equipment for the Automatic Control of Small Hydro Plants, W85-02679	1805	8A
Heterotrophic Bacterial Community in Oligotrophic Lake Tahoe, W85-02649	1805	2H	<b>GOMEZ-GOMEZ, F.</b> Water Resources Appraisal of the College of the Virgin Islands Area, St. Thomas, W85-00066	1801	6B
Primary Productivity and Precipitation at Castle Lake and Lake Tahoe during Twenty-Four Years, 1959-1982, W85-02650	1805	2H	<b>GOMEZ PARRA, A.</b> Heavy Metals in Recent Sediments from the Bay of Cadiz, Spain, W85-02764	1806	5B
Seasonal Dynamics of the Deep-Chlorophyll Maximum in Castle Lake, California, W85-00890	1802	2H	<b>GONANO, L. P.</b> Long-Term Prestress in Concrete-Lined Pressure Tunnels, W85-04414	1809	8F
Size-Fractionation of Natural Phytoplankton Communities in Nutrient Bioassay Studies, W85-03697	1807	2H	<b>GONCALVES, M. DE L. S.</b> Voltammetric Methods for Distinguishing between Dissolved and Particulate Metal Ion Concentrations in the Presence of Hydrous Oxides. A Case Study on Lead (II), W85-04800	1809	5A
Transformations of Nitrogen Following an Epilimnetic Nitrogen Fertilization in Castle Lake, CA: I. Epilimnetic Periphyton Responses, W85-06397	1812	2H	<b>GONENC, L. E.</b> Water Quality Management in Sakarya River Basin: I. Planning Phase, W85-01418	1803	5G
Use of Artificial Wetlands to Remove Nitrogen Compounds from Wastewater, W85-01978	1804	5D	<b>GONOT, J. P.</b> Pumped-Storage: Peak Generation or Operating Reserve, W85-02673	1805	8A
<b>GOLDSBOROUGH, L. G.</b> Effect of an Aquatic Herbicide on Sediment Nutrient Flux in a Freshwater Marsh, W85-06386	1812	5C	<b>GONS, H. J.</b> Seston-Epilimnet Interrelationships in the Shallow Eutrophic Loosdrecht Lakes (The Netherlands), W85-05457	1809	2H
<b>GOLDSMITH, E.</b> Myth of the Benign Superdam, W85-06632	1812	6G	<b>GONTAR, YU. V.</b> Study of Heavy-Metal Concentration in River Runoff from Urbanized Territories, W85-04121	1808	5B
Politics of Damming, W85-06633	1812	6G	<b>GONZALEZ-MARTINEZ, S.</b> Aerobic and Anaerobic Intermediate Storage of Activated Sludge: Efficiency Study, W85-03869	1808	5D
<b>GOLDSTEIN, N.</b> Waste Management Scenarios for Minnesota's Twin Cities, W85-01867	1804	5E	<b>GONZALEZ, R.</b> Anaerobic Treatment of Fuel Alcohol Wastewater by Suspended Growth Activated Sludge, W85-05406	1810	5D
<b>GOLDSTEIN, R. A.</b> Development and Calibration of the Integrated Lake-Watershed Acidification Study Model, W85-05321	1810	2K	<b>GOOD, R. E.</b> Fluxes of Heavy Metals in Delaware River Freshwater Tidal Wetlands, W85-01805	1804	5B
<b>GOLIK, S. S.</b> Dam of Argillites and Siltstones, W85-02231	1805	8D	<b>GOODFELLOW, W. D.</b> Metal Accumulation by Bryophytes in Some Zinc-Rich Blanket Bogs, Selwyn Mountains, Yukon Territory, W85-00952	1802	2L
<b>GOODFELLOW, W. L. JR.</b> Wetlands of the New Jersey Pinelands: Values, Functions, Impacts and a Proposed Buffer Delimitation Model, W85-00813	1802	6G	<b>GOODFELLOW, W. L. JR.</b> Uptake, Elimination, and Metabolism of 14C-Picric Acid and 14C-Picramic Acid in the American Oyster ( <i>Crassostrea virginica</i> ), W85-03221	1807	5B
<b>GOODMAN, G. A.</b> Recovery of Hot Water, Dyes and Auxiliary Chemicals from Textile Wastestreams, W85-00252	1801	5D	<b>GOODMAN, G. A.</b> Recovery of Hot Water, Dyes and Auxiliary Chemicals from Textile Wastestreams, W85-00252	1801	5D
<b>GOODMAN, G. V.</b> Removal of Metal Ions from Wastewater by Algae, W85-05426	1810	5D	<b>GOODMAN, G. V.</b> Removal of Metal Ions from Wastewater by Algae, W85-05426	1810	5D
<b>GOODMAN, J.</b> Collection of Fog Drip, W85-05802	1810	2B	<b>GOODMAN, J.</b> Collection of Fog Drip, W85-05802	1810	2B
<b>GOODMAN, L. R.</b> Effect of Chronic Exposure to EPN and to Guthion on the Critical Swimming Speed and Brain Acetylcholinesterase Activity of Cyprinodon variegatus, W85-02379	1805	5C	<b>GOODMAN, L. R.</b> Effect of Chronic Exposure to EPN and to Guthion on the Critical Swimming Speed and Brain Acetylcholinesterase Activity of Cyprinodon variegatus, W85-02379	1805	5C
<b>GOODMAN, N. L.</b> Occurrence and Distribution of Organic Chemicals in Two Landfill Leachate Plumes, W85-03667	1807	5B	<b>GOODMAN, N. L.</b> Occurrence and Distribution of Organic Chemicals in Two Landfill Leachate Plumes, W85-03667	1807	5B
<b>GOODNER, C. G.</b> Development of an Automated Plugging Factor Monitor, W85-05597	1810	3A	<b>GOODNER, C. G.</b> Development of an Automated Plugging Factor Monitor, W85-05597	1810	3A
<b>GOODRICH, J. A.</b> Cost and Benefits of Drinking Water Treatment, W85-01649	1804	5F	<b>GOODRICH, J. A.</b> Cost and Benefits of Drinking Water Treatment, W85-01649	1804	5F
VOCs in Drinking Water: Cost of Removal, W85-03806	1808	5F	VOCs in Drinking Water: Cost of Removal, W85-03806	1808	5F
<b>GOODWIN, J. H.</b> Assessment of Potential Agricultural and Industrial Uses of a Lime Water-Softening Waste Slurry, W85-05385	1810	5G	<b>GOODWIN, J. H.</b> Assessment of Potential Agricultural and Industrial Uses of a Lime Water-Softening Waste Slurry, W85-05385	1810	5G
<b>GOODWIN, J. K.</b> Handling of Aluminum Forming Wastewater, W85-05236	1810	5D	<b>GOODWIN, J. K.</b> Handling of Aluminum Forming Wastewater, W85-05236	1810	5D
<b>GOODWIN, M. L.</b> Electrochemical Generation of High-Concentration Ozone for Waste Treatment, W85-05771	1810	5D	<b>GOODWIN, M. L.</b> Electrochemical Generation of High-Concentration Ozone for Waste Treatment, W85-05771	1810	5D
<b>GOODWIN, S.</b> Conventional Water Process Costs Studied, W85-01706	1804	5D	<b>GOODWIN, S.</b> Conventional Water Process Costs Studied, W85-01706	1804	5D
<b>GOODYEAR, C. P.</b> Toxic Materials, Fishing, and Environmental Variation: Simulated Effects on Striped Bass Population Trends, W85-06410	1812	5C	<b>GOODYEAR, C. P.</b> Toxic Materials, Fishing, and Environmental Variation: Simulated Effects on Striped Bass Population Trends, W85-06410	1812	5C
<b>GOOS, R. J.</b> Stored Available Soil Water and the Fallow/Recrop Decision-Critical Level Approach, W85-02874	1806	2I	<b>GOOS, R. J.</b> Stored Available Soil Water and the Fallow/Recrop Decision-Critical Level Approach, W85-02874	1806	2I

## AUTHOR INDEX

GOYAL, K. P.

**GOPAL, B.**  
Comparison of Leaching Losses from Decomposing Litter of the Terrestrial and Marsh Plants on Land and in Water, W85-04553 1809 2L

Impact of Human Activities on Water Quality - a Case Study of Water Pollution in Jaipur (India), W85-05614 1810 5B

Influence of Water Hyacinth Cover on the Physico-Chemical Characteristics of Water and Phytoplankton Composition in a Reservoir near Jaipur (India), W85-04913 1809 5C

Seasonal Changes in Concentration of Major Nutrient Elements in the Rhizomes and Leaves of *Typha elephantina* Roxb., W85-03316 1807 5D

**GOPALAKRISHNAN, T. V.**  
Watershed Bounded Network Model (WBNM) for Runoff Prediction of Large Basins, W85-0237 1803 2E

**GOPHEN, M.**  
Impact of Zooplankton Status on the Management of Lake Kinneret (Israel), W85-02410 1805 2H

T2-Coliphage Uptake By Mosquito Larvae, W85-04493 1809 5D

**GORDIN, I. V.**  
Water-Protection and Power Efficiency of Reservoir Drawdown, W85-01140 1803 6B

**GORDON, A. S.**  
Toxicity of Copper to the Marine Bacterium *Vibrio alginolyticus*, W85-05743 1810 5C

**GORDON, D. C. JR.**  
Observations on the Ecological Importance of Salt Marshes in the Cumberland Basin, a Macrotidal Estuary in the Bay of Fundy, W85-06855 1812 2L

**GORDON, G.**  
Automated Iodometric Method for Determination of Trace Chlorate Ion Using Flow Injection Analysis, W85-05519 1810 5A

Lower Detection Limits Found for Chlorine Dioxide Contaminants, W85-01909 1804 5F

**GORDON, J. A.**  
Sanitary Significance of Increases in Fecal Coliform Counts Across a Catfish Aquaculture System, W85-05228 1810 5C

**GORE, R.**  
Time-Dependent Ice Sheet Model: Preliminary Results, W85-00518 1802 2C

**GORELICK, S. M.**  
Hydraulic Gradient Control for Groundwater Contaminant Removal, W85-05533 1810 5F

**GORHAM, E.**  
Acid Rain: Ionic Correlations in the Eastern United States, 1980-1981, W85-01540 1803 5B

Alkaline Phosphatase Activity and Cellular Phosphorus as an Index of the Phosphorus Status of Phytoplankton in Minnesota Lakes, W85-06418 1812 2H

Ecological Effects of Acid Deposition Upon Peatlands: A Neglected Field in 'Acid-Rain' Research, W85-02536 1805 5C

**GORING, D. G.**  
Analysis of Tidal River Records by a Harmonic Regressive Technique, W85-02457 1805 2L

**GORMAN, C.**  
Summertime Net Transport of Dissolved Oxygen, Salt and Heat in a Salt Marsh Basin, North Inlet, S.C., W85-03108 1806 2L

**GORMAN, G. W.**  
*Legionella anisa*: A New Species of *Legionella* Isolated From Potable Waters and a Cooling Tower, W85-05046 1810 5B

**GORMAN, W. D.**  
Practically Irrigable Acreage and Economic Feasibility: The Role of Time, Ethics, and Discounting, W85-01251 1803 6E

**GORSJKO, A. B.**  
Simulation Modeling as a Means of Studying Large Aquatic Ecosystems, W85-02884 1806 2A

**GOSSCHALK, E. M.**  
Sri Lanka's Kotmale Hydro Project, W85-05818 1810 8A

**GOSSELINK, J. G.**  
Vegetation and Primary Production in a Floating Freshwater Marsh in Louisiana, W85-04855 1809 2L

**GOSWAMI, D. C.**  
Evaluating a Model of Snow Cover Area versus Runoff Against a Concurrent Flow Correlation Model in the Western Himalayas, W85-06643 1812 2E

Utilization of Satellite Snow-Cover Observations for Seasonal Streamflow Estimates in the Western Himalayas, W85-01233 1803 7B

**GOTTAU, M. B.**  
Studies on a Selected Industrial Effluent and the Receiving Stream, W85-03027 1806 5B

Studies on a Selected Industrial Effluent and the Receiving Stream, W85-05031 1810 5D

**GOTLIB, Y. A.**  
Characteristics of the Hydrology of Siberian Rivers Based on Experience in the Design and Construction of Hydroelectric Stations, W85-06595 1812 2C

**GOTO, A.**  
Complexing Capacity of River Water (in Japanese), W85-00538 1802 2H

**GOTS, B. L.**  
Mercury Uptake by Lake Trout, *Salvelinus namaycush*, Relative to Age, Growth, and Diet in Tadenc Lake with Comparative Data from Other PreCambrian Shield Lakes, W85-00885 1802 5C

**GOTTFRIED, M. E.**  
Regulation of Bulk Hazardous Cargoes on the Great Lakes, W85-00940 1802 5G

**GOTTLIEB, M. S.**  
Case-Control Cancer Mortality Study and Chlorination of Drinking Water in Louisiana, W85-01213 1803 5C

**GOTTLIER, R.**  
Aluminum in Drinking Waters, W85-05914 1811 5F

**GOTTSCHALK, L.**  
Hydrological Regionalization of Sweden, W85-05904 1811 2A

**GOTTSCHING, L.**  
Anaerobic Fermentation of Sulphite Pulp Mill Effluents, W85-07012 1812 5D

**GOUD, B.**  
Isolation of Pathogenic Bacteria Present in Water Using Immunoabsorbents (Isollement de Bactéries Pathogènes Contaminant une Eau à l'Aide d'Immunoabsorbants), W85-02441 1805 5A

**GOULD, J. P.**  
Formation of Stable Organic Chloramines During the Aqueous Chlorination of Cytosine and 5-Methylcytosine, W85-01726 1804 5F

Kinetics and Products of the Chlorination of Caffeine in Aqueous Solution, W85-01727 1804 5B

**GOULD, M. H.**  
Experimental Study of Ozonation Followed by Slow Sand Filtration for the Removal of Humic Colour from Water, W85-03050 1806 5D

**GOULD, W. D.**  
Irrigation of Forages with Rendering Plant Wastewater: Forage Yield and Nitrogen Dynamics, W85-06623 1812 5D

**GOULD, W. I.**  
Effects of Corn Stalk Orientation and Water Content on Passive Microwave Sensing of Soil Moisture, W85-03302 1807 7B

**GOULDER, R.**  
Bacterioplankton in an Urban River: The Effects of a Metal-Bearing Tributary, W85-02912 1806 5C

Downstream Increase in the Abundance and Heterotrophic Activity of Suspended Bacteria in an Intermittent Calcareous Headstream, W85-03686 1807 2H

**GOULDING, K. H.**  
Toxicity of Eight Water-Soluble Organic Chemicals to *Selenastrum capricornutum*: A Study of Methods of Calculating Toxic Values Using Different Growth Parameters, W85-07159 1812 5A

**GOULTER, I. C.**  
Flood Warnings and Flood Responses for the Red River of the North, W85-02988 1806 6E

Practical Implications in the Use of Stochastic Dynamic Programming for Reservoir Operation, W85-06240 1812 4A

**GOWDA, T. P. H.**  
Impact of Proposed Glengowan Dam Flow Augmentation on Thames River Water Quality, W85-04044 1808 6G

Mixing Zone Studies in the Grand River Basin, W85-01710 1804 5B

Use of Bacteriological Indicators for Swimming Water Quality, W85-04765 1809 5A

Water Quality Prediction in Mixing Zones of Rivers, W85-02275 1805 5B

**GOYAL, K. P.**  
Heat and Mass Transfer in a Fault-Controlled Geothermal Reservoir Charged at Constant Pressure, W85-00176 1801 2F

## AUTHOR INDEX

**GOYAL, S. K.**

**GOYAL, S. K.**  
New Approach for Analysis of Aquifer-Test Data,  
W85-03820 1808 2F

**GOYAL, S. M.**  
Human Pathogenic Viruses at Sewage Sludge Disposal Sites in the Middle Atlantic Region, W85-02939 1806 5B

Isolation of Enteroviruses from Water, Suspended Solids, and Sediments from Galveston Bay: Survival of Poliovirus and Rotavirus Adsorbed to Sediments, W85-02599 1805 5A

**GOYENECHE, O.**  
Bacteriological Study of Geothermal Spring-Waters Dating from Dogger and Trias Periods in the 'Bassin Parisien' (Etude Bacteriologique des eaux geothermales du Dogger et du Trias du Bassin Parisien), W85-03111 1806 2F

**GRABACKA, E.**  
Stream Ecosystems in Mountain Grassland (West Carpathians); 7. Ciliata, W85-02518 1805 5G

**GRABCZAK, J.**  
Isotope Stratification in High Mountain Glaciers: Examples from the Peruvian Andes and Himalaya, W85-03345 1807 2C

New Models for Interpreting Data on the Content of Environmental Tracers in Groundwaters and Their Combined Use, W85-04135 1808 2F

**GRABER, J. C.**  
Measurement of Real Time Turbine Efficiency, W85-02678 1805 8C

**GRACE, J.**  
Effect of Wind on the Transpiration of Young Trees, W85-00626 1802 2D

**GRACEY, M.**  
Isolation of Aeromonas hydrophila from a Metropolitan Water Supply: Seasonal Correlation with Clinical Isolates, W85-02596 1805 5F

Isolation of Aeromonas spp. from an Unchlorinated Domestic Water Supply, W85-02597 1805 5F

**GRADY, C. P. L. JR.**  
Characteristics of Activated Sludge Effluents before and after Ozonation, W85-07045 1812 5E

**GRADY, S. J.**  
Hydrogeologic Evaluation of Selected Stratified-Drift Deposits in Connecticut, W85-00842 1802 2F

**GRAETZ, D. A.**  
Effect of Acid Precipitation on Soil Microbial Activity: II. Field Studies, W85-06619 1812 5C

**GRAF, W. H.**  
Turbulent Boundary-Layer Flow Over Permeable and Non-Permeable Rough Surfaces (Couche Limite Turbulente Sur Des Surfaces Ragueuses Permeables Et Non Permeables), W85-01231 1803 2E

**GRAFFIUS, D.**  
Phosphate Uptake by Blue Green Algae in vitro and in a Lake During an Algal Bloom: Useful Application of a Force-Flow Relationship, W85-01015 1802 2H

**GRAHAM, B. W.**  
Borehole Methodology for Hydrogeochemical Investigations in Fractured Rock, W85-02670 1805 7B

**GRAHAM, H. J.**  
Parasites and the Land Applications of Sewage Sludge, W85-06978 1812 5D

**GRAHAM, J. H.**  
Distributional Patterns of Sunfishes on the New Jersey Coastal Plain, W85-00280 1801 2H

**GRAHAM, R. D.**  
Proline Accumulation in the Grains, Floral Organs and Flag Leaves of Wheat and Barley in Response to Variations in Water and Nitrogen Supply, W85-05919 1811 2I

Studies on the Nitrogen and Water Relations of Wheat, II. Effects of Varying Nitrogen and Water Supply on Growth and Grain Yield, W85-05167 1810 2I

**GRAHAM, R. K.**  
Classification of Water Components According to Their Potential Toxicity to Water Organisms (Die Klassifizierung von Wasserinhaltstoffen Nach Ihrem Toxizitätspotential Gegenüber Wasseroorganismen), W85-06657 1812 5C

**GRAMANN, J. H.**  
Relationship Between Commercial and Recreational Use of Navigation Locks on the Upper Mississippi River, W85-02985 1806 6D

**GRAMLING, G. F. III.**  
Wetland Regulation and Wildlife Habitat Protection; Proposals for Florida, W85-04181 1808 6E

**GRANAT, M. A.**  
Baltimore Harbor and Channels Deepening Study: Chesapeake Bay Hydraulic Model Investigation, W85-06968 1812 6G

**GRANELI, E.**  
Response of Planktonic and Microbenthic Algal Assemblages to Nutrient Enrichment in Shallow Coastal Waters, Southwest Sweden, W85-06210 1812 2L

**GRANELI, W.**  
Effects of Winter Harvest on Water and Sediment Chemistry in a Stand of Reed (*Phragmites australis*), W85-00794 1802 6G

**GRANGE, J. M.**  
Mycobacteria in Water, W85-03298 1807 5B

**GRANGER, R.J.**  
Simulating Infiltration into Frozen Prairie Soils in Streamflow Models, W85-06702 1812 2G

Snowmelt Infiltration to Frozen Prairie Soils, W85-03765 1807 2A

**GRANIER, A.**  
Influence of Soil Drying on the Water Relations and Growth of Douglas Fir (*Pseudotsuga menziesii* (Mirb.) Franco) (Influence du dessèchement du sol sur le fonctionnement hydrique et la croissance du douglas (*Pseudotsuga menziesii* (Mirb.) Franco)), W85-02716 1806 2I

**GRANSTROM, M. L.**  
Phosphorus Management LP Model Case Study, W85-02977 1806 5G

Relationships between the Pollutants in the Sediments and in the Water of the Delaware and Raritan Canal, W85-01413 1803 5B

**GRANT, A. M.**  
Effect of Treatment with Reserpine on the Changes in Filtration Rate of *Mytilus edulis* Subjected to Dissolved Copper, W85-04378 1808 5C

**GRANT, B.**  
Does Your Water System Have Hydroelectric Generating Potential, W85-05488 1810 6B

**GRANT, D. L.**  
Reasonable Groundwater Pumping Levels Under the Appropriation Doctrine: Underlying Social Goals, W85-01249 1803 6E

**GRANT, M. A.**  
Interpretation of Downhole Data and Development of a Conceptual Model for the Redondo Creek Area of the Baca Geothermal Field, W85-03164 1806 6B

**GRANT, M. C.**  
Acid Precipitation in the Colorado Front Range: An Overview with Time Predictions for Significant Effects, W85-02856 1806 2K

Chemical Patterns of Bulk Atmospheric Deposition in the State of Colorado, W85-03570 1807 5B

**GRANT, P. J.**  
Coarse Sediment Yields from the Upper Waipa River Basin, Ruahine Range, W85-00178 1801 2J

Drought Effect on High-Altitude Forests, Ruahine Range, North Island, New Zealand, W85-01886 1804 2A

**GRANT, T. W.**  
Constant and Variable Operating-Angle Sprinklers for Traveler Irrigators, W85-03404 1807 3F

**GRAS, R.**  
Impact of Hydraulic Works on Water Quality, W85-06132 1811 6G

**GRASER, E. A.**  
Effect of Soil Moisture upon Soil Albedo, W85-01071 1802 2G

**GRASSERBAUER, M.**  
Electron-Microanalytical Investigations of the Interfacial Corrosion in Concrete, W85-01129 1803 8F

**GRAUER, B.**  
Influence of Organic Shock Loads on the Performance of an Anaerobic Fluidized Bed System, W85-05558 1810 5D

**GRAVELAND, D. N.**  
Manual for Land Application of Treated Municipal Wastewater and Sludge, W85-04213 1808 5D

**GRAVES, W. C.**  
Avoidance Responses of Estuarine Fish Exposed to Heated-Declorinated Power Plant Effluents, W85-01127 1803 5C

Influence of Chlorine on the Susceptibility of Striped Bass (*Morone saxatilis*) to *Vibrio anguillarum*, W85-03001 1806 5C

**GRAY, D. M.**  
Simulating Infiltration into Frozen Prairie Soils in Streamflow Models, W85-06702 1812 2G

Snowmelt Infiltration to Frozen Prairie Soils, W85-03765 1807 2A

## AUTHOR INDEX

GRIESBACH, S.

<b>GRAY, J. H.</b>																																																																																																																																																																							
Biototoxicity of Coal Liquefaction Waste in the Activated Sludge Process, W85-05437	1810	5D	Zooplankton Associations in the Swamps of Southern Sudan, W85-02406	1805 2H																																																																																																																																																																			
Steam Stripping of Coal Liquefaction Waste for Ammonia and Sulfide Removal, W85-05268	1810	5D	GREEN, J. W.																																																																																																																																																																				
Effects of Pollutants on Marine Ecosystems, W85-01626	1803	5C	GRAY, J. S.			Water Requirements for Coal-fired Power Plants, W85-01241	1803 6D	Effects of Sediment Releases from a Reservoir on Stream Macroinvertebrates, W85-01471	1803	5C	GREEN, M. B.		Temporal Succession in a Desert Stream Ecosystem Following Flash Flooding, W85-00270	1801	2H	Les Marston Purification Lake: Operational and River-Quality Aspects, W85-04458	1809 5G	GRAY, L. J.			GREEN, N. W.		Model for Predicting Ice Accretion and Ablation in Water Bodies, W85-02797	1806	2C	Changes in the Sublittoral Hard Bottom Benthos after a Large Reduction in Pulp Mill Waste to Iddefjord, Norway, Sweden, W85-01629	1803 5C	GRAY, M.			GREEN, R. E.		Exposition of the Distribution Function Used in Proving the Averaging Theorems for Multi-phase Flow, W85-04169	1808	2F	Macroporosity to Characterize Spatial Variability of Hydraulic Conductivity and Effects of Land Management, W85-02317	1805 2G	Numerical Model Study of Ground-Water Contamination from Price's Landfill, New Jersey - I. Data Base and Flow Simulation, W85-00353	1801	5B	GREEN, R. H.		Numerical Model Study of Ground-Water Contamination from Price's Landfill, New Jersey - II. Sensitivity Analysis and Contaminant Plume Simulation, W85-00354	1801	4B	Preliminary Organic Carbon Budget for a Small Dystrophic Lake in Maritime Canada, W85-00989	1802 2H	GREACEN, E. S.			GREEN, R. T.		Water Balance Under Wheat Modelled with Limited Soil Data, W85-06680	1812	2G	Ground-Water Reconnaissance of the Central Weber River Area, Morgan and Summit Counties, Utah, W85-03939	1808 2F	GREEN, A. E.			GREEN, T.		Evapotranspiration from Pasture: A Comparison of Lysimeter and Bowen Ratio Measurements with Priestley-Taylor Estimates, W85-06182	1812	2D	Scales for Double-Diffusive Fingering in Porous Media, W85-02664	1805 2F	GREEN, D. W. J.			GREEN, W. J.		Studies on the Acute Toxicity of Pollutants to Freshwater Macroinvertebrates; 1. Cadmium, W85-06399	1812	5C	Elemental Residence Times in Acton Lake, Ohio, W85-02241	1805 2H	Studies on the Acute Toxicity of Pollutants to Freshwater Macroinvertebrates, 2. Phenol, W85-06393	1812	5C	Geochemistry of the Onyx River (Wright Valley, Antarctica) and its Role in the Chemical Evolution of Lake Vanda, W85-04369	1808 2H	GREEN, E. L.			GREENAWAY, M. A.		Chemical Cleaning Waste Disposal by Land-farming, W85-07097	1812	5E	Time-Series Models for the Prediction of Stream Flow in a Karst Drainage System, W85-06434	1812 2E	GREEN, G. C.			GREENBERG, M. D.		Economical Recording Tipping-Bucket Rain Gauge, W85-01067	1802	2B	Line Momentum Source in Shallow Inviscid Fluid, W85-03038	1806 8B	GREEN, G. H.			GREENE, L. A.		Effects of Acephate (Orthene) on Development and Survival of the Salamander, <i>Ambystoma gracile</i> (Baird), W85-00170	1801	5C	Evaluation of Eutrophication Impact in Public Water Supply Reservoirs in East Anglia, W85-04451	1809 5C	GREEN, H. S.			Water Supply and Lead in Eastern England, W85-03722	1807 5F	Fluid Transport Processes in Upper Spencer Gulf, W85-04762	1809	2L	GREENE, R. W.		GREEN, J.			Alterations in the Zooplankton Community of a Fly Ash Treated Lake, W85-00995	1802 5G	Faunistic Reconnaissance of Lakes Kundi and Keilak, Western Sudan, W85-01027	1802	2H	GREENWOOD, M.		GREGG, P. E. H.			Channel Changes and Invertebrate Faunas below Nant-Y-Moch Dam, River Rheidol, Wales, UK, W85-06007	1811 6G	GREGG, W. W.			GREGG, P. E. H.		Effects of Aquatic Macrophytes on the Stream Microenvironment, W85-01085	1802	2H	Drainage Losses of Potassium from a Yellow-Grey Earth Soil, W85-06183	1812 2K	GRIER, C. E.			GRIEPPINK, B.		Histopathology of <i>Mercenaria mercenaria</i> as an Indicator of Pollutant Stress, W85-05899	1811	5C	Certification of the Contents of Some Heavy Metals (Cd, Co, Cu, Mn, Hg, Ni, Pb, and Zn) in Three Types of Sewage Sludge, W85-03279	1807 5A	GRIESBACH, S.			GRIER, C. E.		Effects of Phosphorus Fertilization on Phytoplankton Biomass and Phosphorus Retention in Subarctic Quebec Lakes, W85-02635	1805	2H	Histopathology of <i>Mercenaria mercenaria</i> as an Indicator of Pollutant Stress, W85-05899	1811 5C
GRAY, J. S.			Water Requirements for Coal-fired Power Plants, W85-01241	1803 6D																																																																																																																																																																			
Effects of Sediment Releases from a Reservoir on Stream Macroinvertebrates, W85-01471	1803	5C	GREEN, M. B.																																																																																																																																																																				
Temporal Succession in a Desert Stream Ecosystem Following Flash Flooding, W85-00270	1801	2H	Les Marston Purification Lake: Operational and River-Quality Aspects, W85-04458	1809 5G																																																																																																																																																																			
GRAY, L. J.			GREEN, N. W.																																																																																																																																																																				
Model for Predicting Ice Accretion and Ablation in Water Bodies, W85-02797	1806	2C	Changes in the Sublittoral Hard Bottom Benthos after a Large Reduction in Pulp Mill Waste to Iddefjord, Norway, Sweden, W85-01629	1803 5C																																																																																																																																																																			
GRAY, M.			GREEN, R. E.																																																																																																																																																																				
Exposition of the Distribution Function Used in Proving the Averaging Theorems for Multi-phase Flow, W85-04169	1808	2F	Macroporosity to Characterize Spatial Variability of Hydraulic Conductivity and Effects of Land Management, W85-02317	1805 2G																																																																																																																																																																			
Numerical Model Study of Ground-Water Contamination from Price's Landfill, New Jersey - I. Data Base and Flow Simulation, W85-00353	1801	5B	GREEN, R. H.																																																																																																																																																																				
Numerical Model Study of Ground-Water Contamination from Price's Landfill, New Jersey - II. Sensitivity Analysis and Contaminant Plume Simulation, W85-00354	1801	4B	Preliminary Organic Carbon Budget for a Small Dystrophic Lake in Maritime Canada, W85-00989	1802 2H																																																																																																																																																																			
GREACEN, E. S.			GREEN, R. T.																																																																																																																																																																				
Water Balance Under Wheat Modelled with Limited Soil Data, W85-06680	1812	2G	Ground-Water Reconnaissance of the Central Weber River Area, Morgan and Summit Counties, Utah, W85-03939	1808 2F																																																																																																																																																																			
GREEN, A. E.			GREEN, T.																																																																																																																																																																				
Evapotranspiration from Pasture: A Comparison of Lysimeter and Bowen Ratio Measurements with Priestley-Taylor Estimates, W85-06182	1812	2D	Scales for Double-Diffusive Fingering in Porous Media, W85-02664	1805 2F																																																																																																																																																																			
GREEN, D. W. J.			GREEN, W. J.																																																																																																																																																																				
Studies on the Acute Toxicity of Pollutants to Freshwater Macroinvertebrates; 1. Cadmium, W85-06399	1812	5C	Elemental Residence Times in Acton Lake, Ohio, W85-02241	1805 2H																																																																																																																																																																			
Studies on the Acute Toxicity of Pollutants to Freshwater Macroinvertebrates, 2. Phenol, W85-06393	1812	5C	Geochemistry of the Onyx River (Wright Valley, Antarctica) and its Role in the Chemical Evolution of Lake Vanda, W85-04369	1808 2H																																																																																																																																																																			
GREEN, E. L.			GREENAWAY, M. A.																																																																																																																																																																				
Chemical Cleaning Waste Disposal by Land-farming, W85-07097	1812	5E	Time-Series Models for the Prediction of Stream Flow in a Karst Drainage System, W85-06434	1812 2E																																																																																																																																																																			
GREEN, G. C.			GREENBERG, M. D.																																																																																																																																																																				
Economical Recording Tipping-Bucket Rain Gauge, W85-01067	1802	2B	Line Momentum Source in Shallow Inviscid Fluid, W85-03038	1806 8B																																																																																																																																																																			
GREEN, G. H.			GREENE, L. A.																																																																																																																																																																				
Effects of Acephate (Orthene) on Development and Survival of the Salamander, <i>Ambystoma gracile</i> (Baird), W85-00170	1801	5C	Evaluation of Eutrophication Impact in Public Water Supply Reservoirs in East Anglia, W85-04451	1809 5C																																																																																																																																																																			
GREEN, H. S.			Water Supply and Lead in Eastern England, W85-03722	1807 5F																																																																																																																																																																			
Fluid Transport Processes in Upper Spencer Gulf, W85-04762	1809	2L	GREENE, R. W.																																																																																																																																																																				
GREEN, J.			Alterations in the Zooplankton Community of a Fly Ash Treated Lake, W85-00995	1802 5G																																																																																																																																																																			
Faunistic Reconnaissance of Lakes Kundi and Keilak, Western Sudan, W85-01027	1802	2H	GREENWOOD, M.																																																																																																																																																																				
GREGG, P. E. H.			Channel Changes and Invertebrate Faunas below Nant-Y-Moch Dam, River Rheidol, Wales, UK, W85-06007	1811 6G																																																																																																																																																																			
GREGG, W. W.			GREGG, P. E. H.																																																																																																																																																																				
Effects of Aquatic Macrophytes on the Stream Microenvironment, W85-01085	1802	2H	Drainage Losses of Potassium from a Yellow-Grey Earth Soil, W85-06183	1812 2K																																																																																																																																																																			
GRIER, C. E.			GRIEPPINK, B.																																																																																																																																																																				
Histopathology of <i>Mercenaria mercenaria</i> as an Indicator of Pollutant Stress, W85-05899	1811	5C	Certification of the Contents of Some Heavy Metals (Cd, Co, Cu, Mn, Hg, Ni, Pb, and Zn) in Three Types of Sewage Sludge, W85-03279	1807 5A																																																																																																																																																																			
GRIESBACH, S.			GRIER, C. E.																																																																																																																																																																				
Effects of Phosphorus Fertilization on Phytoplankton Biomass and Phosphorus Retention in Subarctic Quebec Lakes, W85-02635	1805	2H	Histopathology of <i>Mercenaria mercenaria</i> as an Indicator of Pollutant Stress, W85-05899	1811 5C																																																																																																																																																																			

## AUTHOR INDEX

**GRIEST, W. H.**

**GRIEST, W. H.**  
Determination of Munitions Components in Water by Resin Adsorption and High-Performance Liquid Chromatography-Electrochemical Detection,  
W85-03410 1807 5A

**GRIEVE, I. C.**  
Concentrations and Annual Loading of Dissolved Organic Matter in a Small Moorland Stream,  
W85-02842 1806 5B

**GRiffin, M. L.**  
Chemical Flocculation for Suspended Solids Removal at Remote Mine Sites,  
W85-04730 1809 5D

**GRiffin, O. M.**  
Finite Element Modelling of Surface Waves in a Channel,  
W85-04014 1808 8B

**GRiffin, T. T.**  
Multicomponent Model of Phosphorus Dynamics in Reservoirs,  
W85-03144 1806 2H

**GRiffoen, P. S.**  
Use of Cohorts and Populations in Chronic Toxicity Studies with *Daphnia magna*: A Cadmium Example,  
W85-05810 1810 5C

**GRifFITH, D. A.**  
Continuing Design, Review, and Analysis Work for the Sierra Cooperative Pilot Project,  
W85-05349 1810 3B

**GRifFITH, F. P. JR.**  
Peak Use Charge: An Equitable Approach to Charging for and/or Reducing Summer Peak Use,  
W85-04687 1809 6C

**GRifFITHS, D. J.**  
Studies of the Hydrobiology of a Tropical Lake in North-western Queensland. III. Growth, Chemical Composition and Potential for Harvesting of the Aquatic Vegetation,  
W85-03496 1807 2H

**GRifFITHS, M.**  
Ecological Significance of Upwelling Events in Lake Ontario,  
W85-01357 1803 2H

**GRifFITHS, R. A.**  
Overview of Current Spill Cleanup Technology,  
W85-06975 1812 5G

**GRifFITHS, W. T.**  
Simplified Graphical Solution of the Theis Equation,  
W85-02465 1805 4B

**GRIGOREV, V. M.**  
Calculation of Complete Interception of Groundwater Inflow to 'Perfect' Trenches by Light Wellpoint Installations,  
W85-02229 1805 4B

**GRIGSBY, M. W.**  
Observations of Currents and Water Properties in Commencement Bay,  
W85-06959 1812 2L

**GRIMA, A. P.**  
Apples and Oranges: Toward a Critique of Public Participation in Great Lakes Decisions,  
W85-04573 1809 6A

**GRIMM, E. H.**  
Empirical Basis for Municipal Water Rates Modification,  
W85-04688 1809 3D

**GRIMES, D. J.**  
Distribution of *Pseudomonas aeruginosa* in a Riverine Ecosystem,  
W85-00100 1801 5B

Note on *Yersinia enterocolitica* in a Swine Farm Watershed,  
W85-06179 1812 5B

Numerical Taxonomy of Phenanthrene-Degrading Bacteria Isolated from the Chesapeake Bay,  
W85-03433 1807 5B

Seasonal Study of a Freshwater Lake and Migratory Waterfowl for *Campylobacter Jejuni*,  
W85-01639 1804 5B

Survival and Viability of Nonculturable *Escherichia coli* and *Vibrio cholerae* in the Estuarine and Marine Environment,  
W85-02186 1805 5B

**GRIMES, D. W.**  
Developing the Resource Potential of a Shallow Water Table,  
W85-01832 1804 3B

**GRIMES, L. W.**  
Irrigation of Swine Lagoon Effluent onto Pine and Hardwood Forests,  
W85-04741 1809 5D

**GRIMESTAD, D. E.**  
Total Systems Approach Reduces Mill Wastewater Treatment Costs,  
W85-05405 1810 5D

**GRIMM, N. B.**  
Exchange Between Interstitial and Surface Water: Implications for Stream Metabolism and Nutrient Cycling,  
W85-00422 1801 2H

Temporal Succession in a Desert Stream Ecosystem Following Flash Flooding,  
W85-00270 1801 2H

**GRINKER, J. R.**  
Computer Controlled Operation of an Activated Sludge Plant,  
W85-01652 1804 5D

**GRiSSINGER, E. H.**  
Channel Change Workshop Problem Number 3, Elk River, Kansas,  
W85-06354 1812 6G

Channel Cross-Section Changes in Mississippi's Goodwin Creek,  
W85-05967 1811 2J

Material and Site Controls of Stream Bank Vegetation,  
W85-06095 1811 2E

**GRISWOLD, B. L.**  
Mitigating Effects of Artificial Riffles and Pools on the Fauna of a Channelized Warmwater Stream,  
W85-00203 1801 6G

**GRIZZLE, R. E.**  
Pollution Indicator Species of Macrobenthos in a Coastal Lagoon,  
W85-02757 1806 5C

**GROBBELAAR, J. U.**  
Carbon Flow in a Small Turbid Man-Made Impoundment,  
W85-05740 1810 2H

Carbon Flow in the Pelagic Zone of a Shallow Turbid Impoundment, Wuras Dam,  
W85-06391 1812 2H

Phytoplankton Productivity in a Shallow Turbid Impoundment, Wuras Dam,  
W85-05645 1810 2H

**GROENEWOLD, G. H.**  
Hydrogeochemical Aspects of Surface Mine Reclamation in the Northern Great Plains,  
W85-06076 1811 4C

**GROHMANN, A.**  
Influence of Phosphonates Upon Phosphate Elimination. 1. Communication: 1-Hydroxyethane-1,1-Diphosphonic Acid (HEDP) (Der Einfluss von Phosphonaten auf die Phosphatelimination. 1. Teil: 1-Hydroxyethan-1,1-diphosphonsaure (HEDP)),  
W85-03590 1807 5D

**GROMBACH, P.**  
Practical Introduction of the Remote Control Systems and Process Control Facilities,  
W85-02006 1804 6A

**GROMET-ELHANAN, Z.**  
Batch and Continuous Culture Experiments on Nutrient Limitations and Temperature Effects in the Marine Alga *Tetraselmis suecica*,  
W85-04973 1810 5D

**GROMOVA, T. N.**  
Changes in Chemical Composition of Precipitation as it Falls (Ob Izmenenii Khimicheskogo Sostava Atmosfernykh Osadkov V Protessse Ich Vypadeniya),  
W85-06808 1812 5B

**GROOT, S.**  
Optimization of Water Quality Monitoring Networks,  
W85-01406 1803 7A

Some Ecological Consequences of a Projected Deep Reservoir in the Kabalebo River in Suriname,  
W85-01764 1804 6G

**GROSCHOPF, P.**  
Hydrogeological Study With Environmental Isotopes of Karst Waters of the Eastern Swabian Alb and the Danube Ried (Hydrogeologische Studie mit Umweltisotopen an Karstwassern der Ostlichen Schwabischen Alb und des Donaurieds (Baden-Wuerttemberg und angrenzendes Bayern)),  
W85-00765 1802 2F

**GROSE, M. P. B.**  
Demography and Flora of the Ouse Washes, England,  
W85-00116 1801 2L

**GROSS, S. P.**  
Commerce Clause Curbs State Control of Interstate Use of Ground Water: City of El Paso v. Reynolds,  
W85-01244 1803 6E

**GROSSE, J. Y.**  
Classification of Daily, Monthly and Seasonal Rainfall over France (Typologie des Precipitations Quotidiennes, Mensuelles et Saisonnieres sur La France),  
W85-00393 1801 2B

**GROSSGEIM, V. A.**  
Study of Sediment Transport Routes on the Basis of Dynamic Structures of Bottom Sediments,  
W85-05148 1810 2J

**GROTERUD, O.**  
Conceptual Model of Lake Acidification,  
W85-04531 1809 5C

**GROVE, D. B.**  
Adsorption and Desorption of Hexavalent Chromium in an Alluvial Aquifer Near Telluride, Colorado,  
W85-06626 1812 5B

**GRUEBEL, K. A.**  
Radon-222 Tracing of Sediment-Water Chemical Transport in an Estuarine Sediment,  
W85-01331 1803 2L

**GRUGER, E. H. JR.**  
Effect of Aroclor 1254 on the Biological Fate of 2,6-Dimethylnaphthalene in Coho Salmon (*Oncorhynchus kisutch*),  
W85-04351 1808 5B

## AUTHOR INDEX

GUNTHER, K. O.

<b>GRUNER, E.</b> Gezhouba - Superpower Station on the Chang Jiang, W85-01273	1803 8A	<b>GUIANG III, S. F.</b> Measurements of S(IV) and Organic Anions in Minnesota Rain, W85-02731	1806 5B	<b>GULIVER, J. S.</b> Cost Estimates for Hydropower at Existing Dams, W85-02442	1805 6C
<b>GRUNEWALD, U.</b> Ensuring a High Level of Effectiveness and Intensity of Agricultural and Water-Management Production in Drinking-Water Catchment Areas (Sicherung hoher Effektivitat und Intensitat der landwirtschaftlichen und wasserwirtschaftlichen Produktion in Trinkwasser-Einzugsgebieten), W85-01883	1804 4D	<b>GUIDORZI, R.</b> Identification of Phosphorus Dynamics in Kootenay Lake, Canada, W85-01111	1802 2H	<b>GULLIVER, J. S.</b> Stream Productivity Analysis with DORM - I; Development of Computational Model, W85-04304	1808 2H
Relationship of Water Volume and Water Quality Parameters (Zum Zusammenhang von Parametern der Wassermengen und Wasserbeschaffenheit), W85-06662	1812 5B	<b>GUILBERT, B.</b> Isolation of Pathogenic Bacteria Present in Water Using Immunosorbents (Isolament de Bacteries Pathogènes Contaminant une Eau a l'Aide d'Immunoadsorbants), W85-02441	1805 5A	Stream Productivity Analysis with DORM - II; Parameter Estimation and Sensitivity, W85-04305	1808 2H
<b>GRUNWELL, D.</b> Distribution Problems in Water Supply, W85-03320	1807 5F	<b>GUILBOT, A.</b> Flood Protection in the Loire Valley Downstream Vienne Confluence (Protection des Vals de Loire en Aval de la confluence avec la Vienne), W85-02355	1805 4A	Stream Productivity Analysis with DORM - III; Productivity of Experimental Streams, W85-04306	1808 2H
<b>GRUSHEVSKII, M. S.</b> Some Aspects of Practical Calculations of Unsteady Flow in Open Channels, W85-00453	1801 2E	<b>GUILDFORD, S. J.</b> Primary Productivity of Southern Indian Lake before, during, and after Impoundment and Churchill River Diversion, W85-00635	1802 6G	<b>GUMBS, A. F.</b> Heavy Metals in the Drinking Water from Cisterns Supplying Single-Family Dwellings, W85-06545	1812 5F
<b>GRYGIER, J. C.</b> Algorithms for Optimizing Hydropower System Operation, W85-04786	1809 4A	<b>GUILLAUME, J. R.</b> Effects of Petroleum Hydrocarbons on the Cytochrome P450 Content of the Mollusc Bivalve <i>Mytilus galloprovincialis</i> , W85-01367	1803 5C	<b>GUMMERAN, R. C.</b> Process Design Manual for Dewatering Municipal Wastewater Sludges, W85-05352	1810 5D
<b>GRZYBOWSKA, B.</b> Dependence of Phytoplankton on Zooplankton in a Man-Made Lake, W85-05636	1810 2H	<b>GUILLOT, P.</b> Precipitation in 6 Minutes. First Examination of Several Months of Recordings on Magnetic Cassettes (Les Precipitations en 6 Minutes. Premier Examen de Quelques Mois d'enregistrement Sur Cassette Magnetique), W85-00392	1801 2B	<b>GUMMER, J. H.</b> Use and Re-Use of Itaipu's Diversion Gates, Part Two, W85-01553	1803 8C
<b>GU, Z.</b> Karst Development and the Distribution of Karst Drainage Systems in Dejiang, Guizhou Province, China, W85-00001	1801 2G	<b>GUILLOU, M.</b> Isolation of Pathogenic Bacteria Present in Water Using Immunosorbents (Isolament de Bacteries Pathogènes Contaminant une Eau a l'Aide d'Immunoadsorbants), W85-02441	1805 5A	<b>GUNATILAKA, A.</b> Observations on Phosphorus Dynamics and Orthophosphate Turnover in a Tropical Lake - Parakrama Samudra, Sri Lanka, W85-05642	1810 2H
<b>GUARD, H. E.</b> Environmental Chemistry of 1,2-Propanediol Dinitrate: Azeotrope Formation, Photolysis and Biodegradability, W85-03220	1807 5D	<b>GUITJENS, J. C.</b> Quantity and Quality Variations in Subsurface Drainage, W85-01188	1803 2G	Phosphate Adsorption Kinetics of Resuspended Sediments in a Shallow Lake, Neusiedlersee, Austria, W85-02079	1804 2H
<b>GUBIN, M. F.</b> Use of Equalizing Racks in the Outlet Sections of Draft Tubes of Hydroelectric and Pumped-Storage Stations, W85-05823	1810 8C	<b>GUILLACAR, F. O.</b> 5-alpha(H)-Cholestan-3-alpha-ol in Sediments: Characterization and Geochemical Significance, W85-04759	1809 2K	<b>GUNN, J.</b> Point-Recharge of Limestone Aquifers - A Model from New Zealand Karst, W85-00002	1801 2F
<b>GUERRIER, D.</b> Role of the Photoperiod on Drought Adaptation of Cotton (Role de la Photoperiode dans l'Adaptation a la Secheresse des Cotonniers), W85-02336	1805 2I	<b>GULATI, R. D.</b> Zooplankton and its Grazing as Measures of Trophic in the Loosdrecht Lakes, W85-04548	1809 2H	<b>GUNN, J. M.</b> Responses of Fish Communities to Acidic Waters in Ontario, W85-04204	1808 5C
<b>GUERRIERI, F.</b> Differential Pulse Polarographic Determination of Nitrolotriacetic Acid in Natural Waters and Waste Water Effluents, W85-06254	1812 5A	<b>GULBRANDSEN, L. F.</b> Baltimore Harbor and Channels Deepening Study: Chesapeake Bay Hydraulic Model Investigation, W85-06968	1812 6G	Spawning Site Water Chemistry and Lake Trout ( <i>Salvelinus namaycush</i> ) Sac Fry Survival during Spring Snowmelt, W85-00150	1801 5C
<b>GUERZONI, S.</b> Heavy Metals in Sediments from Different Environments of a Northern Adriatic Sea Area, Italy, W85-03981	1808 5B	<b>GULBRANDSEN, T.</b> Effect of Highway Runoff on Lake Water Quality, W85-00747	1802 5B	<b>GUNN, R. J. M.</b> Biology of <i>Brachycentrus subnubilus</i> Curtis (Trichoptera) in the River Frome, Dorset, W85-04887	1809 2H
<b>GUGANESHARAJAH, K.</b> Forecasting Water Levels for Lake Chad, W85-02362	1805 6A	<b>GULENS, J.</b> Portable Monitor for Measurement of Dissolved Sulfide Based on the Glass/Sulfide-Selective Electrode Couple, W85-04975	1810 7B	<b>GUNNARSSON, L.</b> Anaerobic Treatment of Sulphite Evaporator Condensate in a Pilot Plant of Novel Design, W85-07020	1812 5D
<b>GUGULIS, K. C.</b> Saving the Chesapeake: Maryland's Agricultural Education Program, W85-05953	1811 5G			<b>GUNNER, H. B.</b> Microbiological Control of Eurasian Watermilfoil, W85-06938	1812 4A
				<b>GUNNING, G. E.</b> Reclamation of the Pearl River, A Perspective of Unpolluted Versus Polluted Waters, W85-05725	1810 5G
				<b>GUNTHER, K. O.</b> Environmental Model Segment Approach for Estimating Potential Environmental Concentrations, I. The Model, W85-02699	1806 5B
				Environmental Model Segment Approach for Estimating Potential Environmental Concentrations, II. Application of the Model to p-Dichlorobenzene and Trichloroethene, W85-02700	1806 5B

## AUTHOR INDEX

**GUNTHER, W.**

**GUNTHER, W.**

Observations from the Societal Control of Natural Waters and Water Facilities During the 1983 Spring Dike and River Inspection (Erfahrungen aus der Gesellschaftlichen Kontrolle der Gewässer und der Wasserwirtschaftlichen Anlagen Während der Frühjahrseich- und Flusschau 1983),  
W85-03528 1807 6E

**GUO, C.-Y.**

Optimal Channel Cross Section with Freeboard,  
W85-02448 1805 8A

**GUPTA, A.**

Studies on Some Lotic Systems in the Northeastern Hill Regions of India,  
W85-00799 1802 2H

**GUPTA, A. K.**

Cracking in Reinforced Concrete Analysis,  
W85-02273 1805 8F

Short Term Effects of Aldrin and Swascofix CD-38 on the Feeding and Respiratory Behaviors of Claris batrachus and Cirrhina mrigala,  
W85-06269 1812 5C

**GUPTA, B. R. N.**

Nomogram for Velocities of Partial Flows in Sewers,  
W85-06022 1811 2E

**GUPTA, C. P.**

Conjunctive Utilization of Surface Water and Groundwater to Arrest the Water-Level Decline in an Alluvial Aquifer,  
W85-06053 1811 4B

Evolution of Regional Hydrogeologic Setup of a Hard Rock Aquifer Through R-C Analog Model,  
W85-06822 1812 2F

**GUPTA, P. K.**

Acute Toxicity of Antimycin A, Bayer 73 and 3-Trifluoromethyl-4-Nitrophenol to a Freshwater Teleost Lebiasina reticulata (Peters),  
W85-03236 1807 5C

Evaluation of the Toxicity of Sodium Pentachlorophenol, Pentachlorophenol and Phenol to the Snail Viviparus bengalensis (L.),  
W85-02898 1806 5C

Studies on the Toxicity of Pentachlorophenol, Sodium-pentachlorophenol and Phenol to a Pulmonate Snail Lymnaea luteola (Lamarck),  
W85-04059 1808 5C

**GUPTA, R. C.**

Earth Foundation Treatment at Jebba Dam Site,  
W85-01871 1804 8D

**GUPTA, S.**

Influence of Temperature on the Toxicity of Phenol and its Chloro- and Nitro-Derivatives to the Fish Notopterus notopterus (Pallas),  
W85-06661 1812 5C

**GUPTA, S. C.**

Evaluation of Simplified Methods for Determining Unsaturated Hydraulic Conductivity of Layered Soils,  
W85-02319 1805 2G

**GUPTA, S. K.**

Analysis of Steady-State Flow in Semiconfined Aquifers: A New Approach,  
W85-05844 1810 2F

Estimating Water Application Efficiency in Irrigation Checks,  
W85-05930 1811 3F

Nitrogenous Wastewater Treatment by Activated Algae,  
W85-04967 1809 5D

Physiography and Limnology of Three Lakes in the Environs of the Union Territory of Delhi, India,  
W85-06012 1811 2H

Soil Moisture Transport Through the Unsaturated Zone: Tritium Tagging Studies in Sabarmati Basin, Western India,  
W85-01136 1803 2F

**GUPTA, V. K.**  
Analysis of Structural Identifiability: Theory and Application to Conceptual Rainfall-Runoff Models,  
W85-06503 1812 2A

Automatic Calibration of Conceptual Catchment Models Using Derivative-Based Optimization Algorithms,  
W85-06502 1812 2A

Determination of Ultra Trace Concentrations of Nitrite in Polluted Waters and Soil,  
W85-00547 1802 5A

Scale Considerations in the Modeling of Temporal Rainfall,  
W85-03559 1807 2B

Spectral Theory of Rainfall Intensity at the Meso-beta Scale,  
W85-03169 1806 2B

Toxicity of Nitrite and Its Determination in Polluted Waters Using a New Reagent,  
W85-07106 1812 5A

**GURBANOV, I. S.**  
Experience in the Operation of Hydraulic Structures and Equipment of Hydroelectric Stations,  
W85-03583 1807 8C

**GURNELL, A. M.**  
Box-Jenkins Transfer Function Models Applied to Suspended Sediment Concentration-Discharge Relationships in a Proglacial Stream,  
W85-00112 1801 2J

**GUROL, M. D.**  
Oxidation of Cyanides in Industrial Wastewaters by Ozone,  
W85-04881 1809 5D

**GURTISEN, J. M.**  
Behavior of Trace Metals in Mytilus edulis During a Reciprocal Transplant Field Experiment,  
W85-02540 1805 5C

**GURTZ, J.**  
Calculation of Melt-water Discharge from the Snow Cover in Catchment Areas in the Mittelgebirge Mountains (Berechnung der Schmelzwasserabgabe aus der Schneedecke in Einzugsgebieten des Mittelgebirges),  
W85-01972 1804 2C

**GURTZ, M. E.**  
Substrate-mediated Response of Stream Invertebrates to Disturbance,  
W85-02818 1806 5C

**GURUNADHA RAO, V. V. S.**  
Conjunctive Utilization of Surface Water and Groundwater to Arrest the Water-Level Decline in an Alluvial Aquifer,  
W85-06053 1811 4B

Evolution of Regional Hydrogeologic Setup of a Hard Rock Aquifer Through R-C Analog Model,  
W85-06822 1812 2F

**GUSENKOV, A. P.**  
Estimation of the Fatigue Life of Lock-Gate Elements of the Moscow Canal,  
W85-01141 1803 8C

**GUSEEV, A. A.**  
Discontinuous Wave on Stretches of an Abrupt Expansion of a Canal,  
W85-04424 1809 8B

**GUSTAFSSON, L.**

Interferences in the Determination of Total Nitrogen in Natural Waters by Photo-Oxidation to Nitrate-Nitrite Mixture,  
W85-04239 1808 2K

**GUSTAVSSON, I.**

Concentrations of Cadmium, Lead and Copper in Filtrated Baltic Sea Water Samples Collected at Two Seasons in 1969,  
W85-06261 1812 5B

**GUTHRIE, D. W.**

Leaf Litter Processing Rates in Four Texas Streams,  
W85-02247 1805 2H

**GUTHRIE, R. K.**

Coal Ash Basin Effects (Particulates, Metals, Acidic pH) Upon Aquatic Biota: An Eight-Year Evaluation,  
W85-02980 1806 5C

**GUTIERREZ, A. G.**

Behaviour of Persistent Organochlorine Micropollutants During Primary Sedimentation of Waste Water,  
W85-03031 1806 5D

**GUTJAHR, A.**

Stochastic Models of Subsurface Flow: Log Linearized Gaussian Models Are 'Exact' for Covariances,  
W85-03997 1808 2G

**GUTJAHR, A. L.**

Stochastic Analysis of Unsaturated Flow in Heterogeneous Soils; 1. Statistically Isotropic Media,  
W85-06499 1812 2G

Stochastic Analysis of Unsaturated Flow in Heterogeneous Soils; 2. Statistically Anisotropic Media with Variable alpha,  
W85-06500 1812 2G

Stochastic Analysis of Unsaturated Flow in Heterogeneous Soils; 3. Observations and Applications,  
W85-06501 1812 2G

**GUTTMAN-BASS, N.**

Comparison of Current Methods of Poliovirus Concentration from Tap Water,  
W85-04492 1809 5F

Effects of Humic Materials on Virus Recovery from Water,  
W85-07131 1812 5A

Simultaneous Concentration of Four Enteroviruses from Tap, Waste, and Natural Waters,  
W85-02137 1804 5A

**GUTZMER, M. P.**

Nitrite Toxicity to the Crayfish Procambarus clarkii,  
W85-05013 1810 5C

**GUVEN, O.**

Analysis of Dispersion in a Stratified Aquifer,  
W85-03160 1806 2F

**GVILIYA, M. E.**

Risk of Damage and Failure of Earth Dams,  
W85-04430 1809 8D

**GYDESEN, H.**

Stochastic Approach to Models for the Leaching of Organic Chemicals in Soil,  
W85-03076 1806 5B

**GYLLENSTEN, U.**

Pollution Biomonitoring Programs and the Genetic Structure of Indicator Species,  
W85-05465 1810 5A

**GYR, A.**

Towards a Better Definition of the Three Types of Sediment Transport (Pour Une Meilleure

## AUTHOR INDEX

HALDORSEN, O.

Definition Des Trois Types de Transport de Sediments), W85-01227	1803 2J	HADDEN-CARTER, P. J. Biology, Ecology and Chemistry of a Floc-Like Sediment in Lake Erie, W85-02642	1805 2H	HAGGAG, M. R. I. Flow Resistance of Ice-Covered Streams, W85-05459	1810 2E
HAAG, W. R. Improved Ammonia Oxidation by Ozone in the Presence of Bromide Ion During Water Treatment, W85-02430	1805 5A	HADI, R. A. M. Diatoms of the Shatt Al-Arab River, Iraq, W85-05724	1810 2H	HAGIWARA, K. Study on Organic Pollution Parameters for Dyes and Dyeing Auxiliaries, W85-03746	1807 5C
Kinetics and Products of the Reactions of Ozone with Various Forms of Chlorine and Bromine in Water, W85-05828	1810 5F	HADJIPANOS, P. Flow Distribution in Compound Channels, W85-05788	1810 2E	HAHN, H. H. Comparison of Dynamic Flow Routing Methods for Urban Drainage Systems (Vergleich hydrodynamischer Berechnungsansätze zur Abfluberleitung in Kanalnetzen), W85-04627	1809 8B
Singlet Oxygen in Surface Waters - Part I: Furfuryl Alcohol as a Trapping Agent, W85-01964	1804 2K	HADL, G. Throughflow Investigations in 'Vorderer Finstertaler See' (Tyrrol) by Uranin Dye (Durchflusuntersuchungen am Vorderen Finstertaler See (Kuehtai, Österreich) mit Uranin-Faebersuchen), W85-02524	1805 2E	Water Resources Development and Management Plans; Part 7: Time Variable Effluents in Water Quality Computations - An Aspect of the Water Quality Management Study 'Bewirtschaftungsplan Leine' (Bewirtschaftungsplane; Teil VII: Guteberechnungen mit zeitvarianten Schmutzwasseranleitungen - ein Teilaspekt der Pilotstudie Bewirtschaftungsplan Leine), W85-00967	1802 5B
Singlet Oxygen in Surface Waters - Part II: Quantum Yields of Its Production by Some Natural Humic Materials as a Function of Wavelength, W85-01965	1804 2K	HAERDI, W. Importance of Speciation Methods in Analytical Control of Water Treatment Processes With Application to Fluoride Removal From Waste Waters, W85-04485	1809 5A	HAINES, T. A. Effects of Reduced pH on Three Life Stages of Sunapee Char Salvelinus alpinus, W85-02780	1806 5C
HAAS, C. N. Field Observations on the Occurrence of New Indicators of Disinfection Efficiency, W85-06224	1812 5A	HAFFIELD, N. D. Water Resources Data, North Dakota, Water Year 1982, W85-01936	1804 2E	Errors in pH Measurement with Colorimetric Indicators in Low Alkalinity Waters, W85-00992	1802 5A
Kinetic Limitations on the Selective Precipitation Treatment of Electronics Wastes, W85-05698	1810 5D	HAFFNER, G. D. Ecological Significance of Upwelling Events in Lake Ontario, W85-01357	1803 2H	Regional Survey of Chemistry of Headwater Lakes and Streams in New England: Vulnerability to Acidification, W85-05312	1810 2H
Kinetics of Microbial Inactivation by Chlorine - I; Review of Results in Demand-Free Systems, W85-02917	1806 5D	HAFSKJOLD, P. S. Unconventional Concepts for Dykes and Dams on Soft Clay Foundation, W85-03429	1807 8A	HAKANSON, L. Aquatic Contamination and Ecological Risk. An Attempt to a Conceptual Framework, W85-02428	1805 5C
Kinetics of Microbial Inactivation by Chlorine - II; Kinetics in the Presence of Chlorine Demand, W85-02918	1806 5D	HAGELSTEIN, K. Use of Long Solids Retention Times to Improve the Activated Sludge Biodegradation of a Complex Waste, W85-05551	1810 5D	Bottom Dynamics in Lakes, W85-02054	1804 2J
Removal of New Indicators by Coagulation and Filtration, W85-04833	1809 5F	HAGEMAN, R. K. Cost Sharing with Irrigated Agriculture: Promise Versus Performance, W85-02361	1805 6C	Metals in Fish and Sediments from the River Kolbäckan Water System, Sweden, W85-02896	1806 5B
HABERER, K. Stripping Test for Estimation of the Removal of Organic Substances by Aeration (Stripbarkeits-test zur Abschätzung der Entfernbarkheit organischer Substanzen aus dem Wasser durch Belüften), W85-03593	1807 5A	HAGEN, J. O. Subglacial Hydrology and Sediment Transport at Bondhusbreen, Southwest Norway, W85-05733	1810 2C	HAKIMI, A. Empirical Contribution to the Study of Swell Propagation in a Breakwater (Contribution Empirique à l'Etude de la Propagation de la Houle à l'intérieur des Digue), W85-03589	1807 8B
HABETS, L. H. A. Application of the UASB-Reactor for Anaerobic Treatment of Paper and Board Mill Effluent, W85-07005	1812 5D	HAGENAARS, C. P. M. M. Comparison of Bacterial Sulfate Reduction and Methanogenesis in the Anaerobic Sediments of a Stratified Lake-Ecosystem, W85-04703	1809 2H	HAKONSON, T. E. Predicted Erosion and Sediment Delivery of Fallout Plutonium, W85-03858	1808 5B
HACK, D. J. State Regulation of Chloramination, W85-05475	1810 5F	HAGENAUER, R. W. H. Kinetic Studies of Bacterial Sulfate Reduction in Freshwater Sediments by High-Pressure Liquid Chromatography and Microdistillation, W85-05053	1810 2H	HAKTANIR, T. Storage-Yield Relationships for Reservoirs by Two Different Procedures, W85-01611	1803 2E
HACK, H. P. 60 Years of the River Inn Power Plant Toging-Jettenbach (60 Jahre Innkraftwerk Toging-Jettenbach), W85-03447	1807 8A	HACKER, P. Borehole Measurements and its Application, Shown by an Example of Two Artesian Wells (Bohrlochmessmethoden und ihre Einsatzmöglichkeiten, Gezeigt am Beispiel Zweier Artesischer Brunnen), W85-03445	1807 2F	HAKULINEN, R. Fluidized Bed Technology in the Anaerobic Treatment of Forest Industry Wastewaters, W85-07006	1812 5D
HACKETT, A. Distribution Problems in Water Supply, W85-03320	1807 5F	HAGER, W. H. Effect of Local Bottom Slope and Roughness Coefficient Variations in Overland Flows, W85-06645	1812 2E	Role of Facultative Anaerobic Micro-organisms in Anaerobic Biodegradation of Chlorophenols, W85-07022	1812 5D
HACKETT, D. P. Citizen Suits Against Private Industry Under the Clean Water Act, W85-04184	1808 6E	HACKNEY, C. T. Use of Oligohaline Marshes by Fishes and Macrofaunal Crustaceans in North Carolina, W85-02995	1806 2L	HAL, T. Reservoir Storage Equation Experimentally Verified, W85-04416	1809 2E
HAGERTY, D. J. Rising Ground Water - Problem or Resource, W85-00307	1801 4B	HAGERTY, D. J. Simplified Hydrological Rainfall-Runoff Model, W85-03088	1806 2A	HALANAY, A. Resonance Sensitivity of Hydro-power and Pumping Stations, W85-02681	1805 8C
Streambank Stability, W85-07082	1812 2J	HAGGAG, M. R. I. Drinking Water in Developing Countries - The Minimum Treatment Philosophy. A Case Study, W85-02018	1804 3B	HALDORSEN, O. Drinking Water in Developing Countries - The Minimum Treatment Philosophy. A Case Study, W85-02018	1804 3B

**AUTHOR INDEX**

**HALE, T. W.**

Water Resources Data, Georgia, Water Year 1982,  
W85-01938 1804 2E

**HALEMJEKO, G. Z.**  
Longterm Studies on Alkaline Phosphatase Activity (APA) in a Lake with Fish-Aquaculture in Relation to Lake Eutrophication and Phosphorus Cycle,  
W85-05726 1810 5C

Role of Phosphatases in Phosphorus Mineralization During Decomposition of Lake Phytoplankton Blooms,  
W85-03230 1807 2H

**HALES, J. H.**  
Spatial Distributions of Precipitation Acidity and Major Ion Wet Deposition in North America During 1980,  
W85-04647 1809 5B

**HALES, L. Z.**  
Erosion Control of Scour During Construction; Report 5: Experimental Measurements of Refraction and Diffraction Downcoast of an Oblique Breakwater,  
W85-06920 1812 8B

**HALFMAN, J. D.**  
Effects of Bottom Currents and Fish on Sedimentation in a Deep-water, Lacustrine Environment,  
W85-04309 1808 2J

**HALFON, E.**  
Composition of Particulate Organic Matter in the Euphotic Zone of Lake Superior,  
W85-02891 1806 2H

Error Analysis and Simulation of Mirex Behaviour in Lake Ontario,  
W85-00265 1801 5B

Identification of Phosphorus Dynamics in Kootenay Lake, Canada,  
W85-01111 1802 2H

**HALL, A. J.**  
Hydrology in Tropical Australia and Papua New Guinea,  
W85-05005 1810 2A

**HALL, C. W.**  
Groundwater Quality Protection: The Issue in Perspective,  
W85-04683 1809 5G

**HALL, D. K.**  
Nimbus-7 SMMR Polarization Responses to Snow Depth in the Mid-Western U.S.,  
W85-06636 1812 2C

Use of SEASAT Synthetic Aperture Radar and LANDSAT Multispectral Scanner Subsystem Data for Alaskan Glaciology Studies,  
W85-00521 1802 7B

**HALL, E. P.**  
Handling of Aluminum Forming Wastewater,  
W85-05236 1810 5D

**HALL, E. R.**  
Anaerobic Treatment of Thermal Sludge Conditioning Liquor with Fixed-Film and Suspended-Growth Processes,  
W85-05287 1810 5D

**HALL, F.**  
Tidal and Seasonal Variations of Sulfate Ion in a New Jersey Marsh System,  
W85-01848 1804 5B

**HALL, G. H.**  
Contribution of Nitrification in the Water Column and Profundal Sediments to the Total Oxygen Deficit of the Hypolimnia of a Mesotrophic Lake (Grasmere, English Lake District),  
W85-03305 1807 2H

Measurements of Nitrification Rates in Lake Sediments: Comparison of the Nitrification Inhibitors Nitrapyrin and Allylthiourea,  
W85-03304 1807 2H

**HALL, G. W.**  
Chicago Experience in Large-Scale Land Application,  
W85-05058 1810 5E

**HALL, J. F.**  
Nature and Source of Arsenic in Northeastern Ohio Ground Water,  
W85-00325 1801 5B

**HALL JR, L. W.**  
Evaluation of the Potential Toxicity of Treated Bleached Kraft Mill Effluent To Striped Bass (*Morone saxatilis* Walbaum) Larvae Exposed Through Metamorphosis to the Juvenile Stage,  
W85-02908 1806 5C

**HALL, K. J.**  
Coprecipitation of Phosphate with Calcite in a Naturally Eutrophic Lake,  
W85-01587 1803 2H

Limnological Contrasts and Anomalies in Two Adjacent Saline Lakes,  
W85-05755 1810 2H

**HALL, K. R.**  
Design of Armour Systems for the Protection of Rubble Mound Breakwaters,  
W85-01707 1804 2J

**HALL, L. A.**  
Water-Resources Investigations in North Dakota—Fiscal Year 1984,  
W85-03909 1808 10C

**HALL, L. W.**  
Comparison of Avoidance Responses of an Estuarine Fish, *Fundulus heteroclitus*, and Crustacean, *Palaeomonetes pugio*, to Bis(Tri-N-Butyltin)Oxide,  
W85-06887 1812 5C

Effects of Organic and Inorganic Chemical Contaminants on Fertilization, Hatching Success, and Prolarval Survival of Striped Bass,  
W85-03225 1807 5C

**HALL, L. W. JR.**  
Avoidance Responses of Estuarine Fish Exposed to Heated-Declorinated Power Plant Effluents,  
W85-01127 1803 5C

Influence of Chlorine on the Susceptibility of Striped Bass (*Morone saxatilis*) to *Vibrio anguillarum*,  
W85-03001 1806 5C

**HALL, R. J.**  
Effect of Discharge Rate on Biotic and Abiotic Chemical Flux in an Acidified Stream,  
W85-02534 1805 5B

Physical, Chemical, and Biological Consequences of Episodic Aluminum Additions to a Stream,  
W85-05621 1810 5C

**HALL, R. L.**  
Use of a Wet-Surface Weighing Lysimeter System in Rainfall Interception Studies of Heather (*Calluna vulgaris*),  
W85-01154 1803 2I

**HALLAIRE, M.**  
Water Transfer in Plants; III. - Simulation of the Influence of Canopy Parameters for Diurnal Development of Leaf Water Potential (Transfert Hydrique dans le vegetal; III. - Simulation de l'influence des parametres du couvert sur l'evolution diurne du potentiel hydrique foliaire),  
W85-00085 1801 2I

**HALLDIN, S.**  
Evapotranspiration of a Deciduous Forest: Simulation Using Routine Meteorological Data,  
W85-04281 1808 2D

**HALLER, W. T.**  
Effects of Heavy Metals on Water Hyacinths (*Eichhornia crassipes* (Mart.) Solms),  
W85-00880 1802 5D

Prediction of Chlorophyll a Concentrations in Florida Lakes: Importance of Aquatic Macrophytes,  
W85-00154 1801 2H

Toxicity of Adjuvants to Bluegill,  
W85-04354 1808 5C

**HALLERMEIER, R. J.**  
Entrained and Bed-Load Sand Concentrations in Waves,  
W85-07080 1812 2J

**HALLETT, J.**  
How Snow Crystals Grow,  
W85-03314 1807 2C

**HALLIDAY, M. C.**  
Effects of Pollution on the Benthos of the Firth of Forth,  
W85-00800 1802 5C

**HALLQUIST, S.**  
Beneficial Use of Sewage Sludge in the Gothenburg Region, Sweden,  
W85-04003 1808 5E

**HALLS, D. J.**  
Suppression of Interferences in the Determination of Lead in Natural and Drinking Waters by Graphite-Furnace Atomic Absorption Spectrometry,  
W85-05525 1810 5A

**HALMANN, M.**  
Batch and Continuous Culture Experiments on Nutrient Limitations and Temperature Effects in the Marine Alga *Tetraselmis suecica*,  
W85-04973 1810 5D

**HALSTEAD, B. G.**  
Unusual Diel pHs in Water as Related to Aquatic Vegetation,  
W85-01472 1803 2H

**HALTER, F.**  
Recovery of Damages by States for Fish and Wildlife Losses Caused by Pollution,  
W85-02181 1805 5C

**HALTRICH, W. G.**  
Water Quality Management in the Chemical Industry - BASF's Ludwigshafen Complex as an Example - Investigations, Design, Operation,  
W85-04008 1808 5D

**HALTTUNEN-KEYRILAINEN, L.**  
Comparison of the *Selenastrum* Bottle Test and the Natural Phytoplankton Assay in Algal Toxicity Tests,  
W85-04615 1809 5A

**HALVERSON, B.**  
Hydraulic Conductivity Measured Electronically in an Auger Hole,  
W85-04740 1809 2G

**HALVERSON, B. E.**  
Corn Silage Response to Subsurface Drainage on Alluvial Soil,  
W85-04738 1809 2G

**HALVERSON, H. G.**  
Contribution of Precipitation to Quality of Urban Storm Runoff,  
W85-04992 1810 5B

**HALVORSON, A. D.**  
Saline-Seep Reclamation in the Northern Great Plains,  
W85-03384 1807 4B

**HAMAKER, D. B.**  
Effects of Fenvalerate on Larval Development of *Palaeomonetes pugio* (Holthuis) and on Larval Metabolism during Osmotic Stress,  
W85-03691 1807 5C

AUTHOR INDEX

HANSEN, E. M.

**HAMASHIMA, S.**  
Correlation of the Flora of Aquatic Macrophytes with the Chemical Contents of Water in the Irrigation Reservoirs of Tokai District (in Japanese),  
W85-00540 1802 2H

**HAMBILIN, P. F.**  
Classification and Dynamic Simulation of the Vertical Density Structure of Lakes,  
W85-02222 1805 2H  
Free Surface Oscillations of Lake Ontario,  
W85-01601 1803 2H  
Pilot Experiments on Thermal Bar in Lock Exchange Flow,  
W85-02443 1805 8B

**HAMBRECK, G. A.**  
Geochemical Behavior of Inorganic Germanium in an Unperturbed Estuary,  
W85-04760 1809 2K  
Geochemistry of Inorganic Germanium In Natural Waters,  
W85-04482 1809 2K

**HAMED, M. E.**  
Boundary Shear in Symmetrical Compound Channels,  
W85-03010 1806 8B

**HAMILTON, D. A.**  
Field Comparison of Three Mass Transport Models,  
W85-04393 1808 5B

**HAMILTON, H. R.**  
Spatial Heterogeneity in Whole Lake Sediments - Towards a Loading Estimate,  
W85-02073 1804 2H

**HAMILTON, T. A.**  
Application of a Conventional Fishery Model for Assessment of Entrainment and Impingement Impact,  
W85-01118 1803 6G

**HAMELTT, J. M.**  
Runoff and Sediment Transport Within and From Small Agricultural Watersheds,  
W85-04734 1809 2J

**HAMILIN, S. N.**  
Injection of Treated Wastewater for Ground-Water Recharge in the Palo Alto Baylands, California. Hydraulic and Chemical Interactions-Preliminary Report,  
W85-00840 1802 5G

**HAMMER, M. J.**  
Rotating Biological Contractors Treating Combined Domestic and Cheese-Processing Wastewaters,  
W85-05227 1810 5D

**HAMMER, U. T.**  
Dynamics and Mechanisms of Arsenite Oxidation by Freshwater Lake Sediments,  
W85-02080 1804 5B  
Dynamics of Desorption of Mercury Absorbed on Poorly Crystalline Oxides of Manganese, Iron, Aluminum, and Silicon,  
W85-02627 1805 5B

**HAMMERMEISTER, D. E.**  
Acute and Chronic Toxicities of Arsenic(III) to Fathead Minnows, Flagfish, Daphnids, and an Amphipod,  
W85-02423 1805 5C

**HAMMERSCHLAG, R. S.**  
Toxicity of Chlorine to a Common Vascular Aquatic Plant,  
W85-01731 1804 5C

**HAMMOND, D. E.**  
Nutrient Exchange across the Sediment-Water Interface in the Potomac River Estuary,  
W85-00655 1802 2L

**HAMMOND, J. W.**  
Treatment System for Control of Radioactive Wastewater Generated During Cleanup of the Canonsburg, Pennsylvania, Site of the Uranium Mill Tailings Remedial Action Program,  
W85-05262 1810 5D

**HAMNER, P. P.**  
Physical, Chemical, and Biological Characteristics of a Stratified, Saline, Sulfide Lake in Palau,  
W85-01593 1803 2H

**HAMNER, W. M.**  
Physical, Chemical, and Biological Characteristics of a Stratified, Saline, Sulfide Lake in Palau,  
W85-01593 1803 2H

**HAMODA, M. F.**  
Effect of Settling on Performance of the Upflow Anaerobic Sludge Bed Reactors,  
W85-04303 1808 5D  
Enhanced Activated Sludge Waste Treatment by the Addition of Adsorbents,  
W85-03049 1806 5D

**HAMPSON, P. S.**  
Ground-Water Resources of St. Johns County, Florida,  
W85-03903 1808 2F  
Wetlands in Florida,  
W85-03894 1808 2H

**HAMPTON, G. J.**  
Determination of Microbial Cell Numbers in Subsurface Samples,  
W85-04636 1809 5A

**HAMZA, A.**  
Mercury Removal from a Chloralkali Plant in Egypt,  
W85-05421 1810 5D  
Treatability of Dairy Wastewater,  
W85-05256 1810 5D

**HAN, W.**  
Relationships Between Electrical Conductivity, Chlorinity and Density of Coastal Waters of China (in Chinese),  
W85-02382 1805 2L

**HANCOCK, G. D.**  
Microwave Measurements of Moisture Distributions in the Upper Soil Profile,  
W85-02160 1804 2G

**HAND, B. M.**  
Differential Transport of Fall-Equivalent Sand Grains, Lake Ontario, New York,  
W85-06422 1812 2J

**HAND, J.-M.**  
Converting from Chlorine to Chloramines: A Case Study,  
W85-05474 1810 5F

**HANDA, B. K.**  
Chemical Composition of Rain Water with Special Reference to Heavy Metals over Lucknow, Uttar Pradesh in 1981,  
W85-05101 1810 2K

**HANDLEY, L. L.**  
Effluent Irrigation of Para Grass: Water, Nitrogen, and Biomass Budgets,  
W85-03132 1806 3C

**HANDLIN, D. L.**  
Irrigation of Swine Lagoon Effluent onto Pine and Hardwood Forests,  
W85-04741 1809 5D

**HANDMAN, E. H.**  
Hydrogeologic Evaluation of Selected Stratified-Drift Deposits in Connecticut,  
W85-00842 1802 2F

**HANDY, A. H.**  
Water Resources of Sleeping Bear Dunes National Lakeshore, Michigan,  
W85-03917 1808 2E

**HANER, B. E.**  
Santa Ana River: An Example of a Sandy Braided Floodplain System Showing Sediment Source Area Imprinting and Selective Sediment Modification,  
W85-01735 1804 2J

**HANKE, W.**  
Comparison of Physiological Changes in Carp, Cyprinus carpio, Induced by Several Pollutants at Sublethal Concentrations. I. The Dependency on Exposure Time,  
W85-06744 1812 5C

**HANKS, J. P.**  
Plant Communities and Ground-Water Levels in Southern Nassau County, Long Island, New York,  
W85-06802 1812 2F

**HANNA, F. S.**  
Changes in the Quality of Nile Water in Egypt During the Twenty-Five Years, 1954-1979,  
W85-05162 1810 6G

**HANNAFORD, J. F.**  
Continuing Design, Review, and Analysis Work for the Sierra Cooperative Pilot Project,  
W85-05349 1810 3B

**HANNAH, J. B.**  
Histologic and Skeletal Abnormalities in Benzo(a)pyrene-Treated Rainbow Trout Alewives,  
W85-03223 1807 5C

**HANNAN, T. C.**  
Flood Warnings and Flood Responses for the Red River of the North,  
W85-02988 1806 6E

**HANSCHMANN, G.**  
Toxicity and Trace Analysis of Tensides in Water (Zur Toxizität und Spurenanalyse von Tensiden in Wasser),  
W85-06272 1812 5A

**HANSEN, N.**  
Forecasting of Water Level and Discharge of the Elbe with the Aid of Fuzzy Modelling (Vorhersage von Wasserstand und Durchfluss für die Elbe mit Hilfe einer unscharfen Modellierung),  
W85-01973 1804 2E

**HANSEN, C. L.**  
Bacterial Removal of Mercury from Sewage,  
W85-04114 1808 5D

**HANSEN, C. W.**  
Impairment of Existing Water Rights Under the Wyoming Watershed Act,  
W85-02175 1805 6E

**HANSEN, D. J.**  
Effect of Chronic Exposure to EPN and to Guthion on the Critical Swimming Speed and Brain Acetylcholinesterase Activity of Cyprinodon variegatus,  
W85-02379 1805 5C

**HANSEN, D. S.**  
Water Resources of Hanson and Davison Counties, South Dakota,  
W85-00588 1802 2F

**HANSEN, E. M.**  
Probable Maximum Precipitation Estimates - United States Between the Continental Divide and the 103rd Meridian,  
W85-04226 1808 2B

## AUTHOR INDEX

**HANSEN, H. J.**

**HANSEN, H. J.**  
Diel Variation in Concentration, Assimilation and Respiration of Dissolved Free Amino Acids in Relation to Planktonic Primary and Secondary Production in Two Eutrophic Lakes, W85-00994 1802 2H

**HANSEN, K.**  
South Florida's Water Dilemma: A Trickle of Hope for the Everglades, W85-00905 1802 2L

**HANSEN, N.**  
Biodegradation of 4-Nitrophenol in Standardized Aquatic Degradation Tests, W85-02944 1806 5B

**HANSEN, S. C.**  
Groundwater: An Inventory of Wells and Contamination Potential Within the Silurian Aquifer of Calumet County, W85-00055 1801 5G

**HANSEN, T.**  
Quantitative Estimates and Community Structure of Invertebrates in a Macrophyte Rich Stream, W85-06443 1812 2H

**HANSEN, W. R.**  
Fecal Coliform in the Salt River Recreation Areas of Arizona, W85-02394 1805 5B

**HANSON, B. J.**  
Leaf Litter Processing in Aquatic Systems: A Two Variable Model, W85-00412 1801 2K

**HANSON, B. R.**  
Effects of Increasing Drainage in the San Joaquin Valley, W85-03657 1807 4A

Irrigation Scheduling Under Saline High Water Tables, W85-04744 1809 3F

Spectral Analysis of Water Advance in Level Basins, W85-03380 1807 2G

**HANSON, C. L.**  
Annual and Monthly Precipitation Generation in Idaho, W85-06089 1811 2B

Estimating the Parameters of a Cube Root Normal Distribution from Reduced Sample Data, W85-04796 1809 2B

**HANSON, H. M.**  
Limitations of Body Burden as an Index of Environmental Contamination: Heavy Metals in Fish *Cottus gobio* L. from the River Ecclesbourne, Derbyshire, W85-01446 1803 5A

**HANSON, J. E.**  
Breeding Mallard (*Anas platyrhynchos*) Habitat Suitability Model, W85-01792 1804 6G

Pheasant (*Phasianus colchicus*) Habitat Suitability Model, W85-00062 1801 6G

**HANSON, J. M.**  
Empirical Prediction of Crustacean Zooplankton Biomass and Profundal Macrofauna Biomass in Lakes, W85-00152 1801 2H

**HANSON, M. J.**  
Side Effects of 58 Years of Copper Sulfate Treatment of the Fairmont Lakes, Minnesota, W85-04996 1810 5G

**HANSON, R. L.**  
Oklahoma: Summary of Activities of the U.S. Geological Survey, Water Resources Division, Oklahoma District, 1983, W85-03922 1808 10C

**HANSSEN, H.**  
Simple Field Method for Concentration of Viruses from Large Volumes of Water, W85-02603 1805 7B

**HANSSON, L.-A.**  
Effects of Winter Harvest on Water and Sediment Chemistry in a Stand of Reed (*Phragmites australis*), W85-00794 1802 6G

**HANTKE, H.**  
Use of Icebergs to Supply Water (Die Verwendung von Eisbergen zur Wasserversorgung), W85-04625 1809 3B

**HANUSOVA, J.**  
Cumulation of Zinc, Cadmium and Mercury on the Alga *Scenedesmus obliquus*, W85-06268 1812 5C

**HANYA, T.**  
Vertical Distribution of Organic Constituents in an Antarctic Lake: Lake Vanda, W85-00418 1801 2H

**HAQ, I.**  
Comparison of Seasonal and Diurnal Patterns of Some Physico-Chemical Parameters of the Open and Closed Parts of Loktak Lake, Manipur, India, W85-05444 1810 2H

**HARALD, F.**  
Methods for Evaluation Maximum Acceptable Toxicant Concentration of Some Pesticides Upon the Freshwater Fish. I. Evaluation MATC Values of Fungicide Thiram (Metode de Determinare a Valorilor Maxime Admisibile (MATC) in Apa a Unor Pesticide Asupra Unor Specii de Pestii Dulcicoli. I. Determinarea Valorii MATC a Fungicidului Tiuram), W85-03531 1807 5C

**HARANGI, J.**  
Gas Chromatographic Method for the Determination of Elemental Sulphur in Sediments, W85-02305 1805 5A

**HARBELL, S. C.**  
Trout Farming in Washington, W85-05337 1810 8I

**HARBISON, P.**  
Regional Variation in the Distribution of Trace Metals in Modern Intertidal Sediments of North Spencer Gulf, South Australia, W85-04764 1809 5B

**HARDCastle, G. J.**  
Treatment of a High-Strength Industrial Waste in a Continuously Fed, Intermittently Operated, Activated Sludge System, W85-03867 1808 5D

**HARDEN, D.**  
Adaptation of an Industrial Activated Sludge Process to the Removal of Cyanide, W85-05418 1810 5D

**HARDING, R. J.**  
Use of a Wet-Surface Weighing Lysimeter System in Rainfall Interception Studies of Heather (*Calluna vulgaris*), W85-01154 1803 2I

**HARDJOWITJITRO, H.**  
Watershed Rehabilitation Program Related to the Management of River and Reservoir Sedimentation in Indonesia, W85-04438 1809 4D

**HARDY, E. R.**  
Vertical Distribution of Zooplankton and Physico-Chemical Conditions During a 24-hour Period in an Amazon Floodplain Lake - Lago Calado, Brazil, W85-06449 1812 2H

**HARDY, J. K.**  
Cadmium Uptake by the Water Hyacinth: Effects of Solution Factors, W85-00682 1802 5C

Use of a Permeation Sampler for Determination of Volatile Priority Pollutants, W85-04960 1809 5A

**HARE, L.**  
Diel and Seasonal Physico-Chemical Fluctuations in a Small Natural West African Lake, W85-03685 1807 2H

**HARGETT, D. L.**  
Suitability and Hydraulic Capacity of Different Soils, W85-05211 1810 5D

**HARGIS, J. R.**  
Assessment of Historical Change in Two Northern Minnesota Lakes, W85-04602 1809 5B

**HARGIS, W. J. JR.**  
Effects of Contaminated Sediments and Sediment-Exposed Effluent Water on an Estuarine Fish: Acute Toxicity, W85-05892 1811 5C

**HARGREAVES, G. H.**  
Economic Considerations of Deficit Irrigation, W85-03817 1808 3F

**HARIDAS, A.**  
Transport and Fate of Microorganisms in Porous Media: A Theoretical Investigation, W85-01173 1803 5B

**HARITATOS, N. J.**  
Waste Water Treating Process, W85-02863 1806 5D

**HARKIN, J. M.**  
Pesticides in Groundwater Beneath the Central Sand Plain of Wisconsin, W85-02025 1804 5B

Vegetable Processing Wastewaters: Liability or Asset, W85-05392 1810 5E

**HARKNESS, N.**  
Problems Associated with the Disposal of Trade Effluent to Sewers - Charging and Control, W85-04463 1809 5E

**HARKNESS, R. E.**  
Water Resources Data, North Dakota, Water Year 1982, W85-01936 1804 2E

**HARKNESS, W. E.**  
Shallow Ground-Water Flow and Drainage Characteristics of the Brown Ditch Basin near the East Unit, Indiana Dunes National Lakeshore, Indiana, 1982, W85-01948 1804 4A

**HARLAN, C. W.**  
Histopathological, Hematological, Condition-Factor, and Organ Weight Changes Associated with Selenium Accumulation in Fish from Belew's Lake, North Carolina, W85-02198 1805 5C

**HARLAN, J. C.**  
Case Study: Estimating Antecedent Precipitation Index from Heat Capacity Mapping Mission Day Thermal Infrared Data, W85-00689 1802 7B

## AUTHOR INDEX

HARTE, J.

<b>HARLIN, J. M.</b>				
Irrigation and Groundwater Depletion in Caddo County, Oklahoma,				
W85-06234	1812	4B		
<b>HARLIN, M. M.</b>				
Seagrass-Sediment Dynamics of a Flood-Tidal Delta in Rhode Island (U.S.A.),				
W85-01081	1802	2L		
<b>HARLOW, B. D.</b>				
Oil Waste Treatment and Reclamation in the Automotive Industry,				
W85-05245	1810	5D		
<b>HARMON, W. C.</b>				
Susceptibility of Agricultural Soils to Interrill Erosion,				
W85-02876	1806	2J		
<b>HARMSWORTH, R. V.</b>				
Langee: A Geochemical History of Meromixis,				
W85-01013	1802	2H		
<b>HARNACK, R. P.</b>				
Specification of United States Seasonal Precipitation,				
W85-07141	1812	2B		
<b>HAROU, P. A.</b>				
Role of Forestry in Dry Africa,				
W85-05467	1810	4D		
<b>HARPER, D.</b>				
Recent Changes in the Ecology of Lake Naivasha, Kenya,				
W85-04566	1809	2H		
<b>HARPER, E.</b>				
COPA II and the River Mersey - a Regional Water Authority View,				
W85-02225	1805	5D		
<b>HARPER, H. H.</b>				
Role of Heavy Metals in Stormwater Runoff from Highway Bridges,				
W85-00746	1802	5B		
Impact of Bridging on Floodplains,				
W85-06067	1811	6G		
<b>HARPER, J. D.</b>				
Acid Rain and Federal Common Law,				
W85-01668	1804	6E		
<b>HARPER, K. T.</b>				
Effects of Increasing Snowpack on a Subalpine Meadow in the Uinta Mountains, Utah, U.S.A.,				
W85-00236	1801	2C		
<b>HARPER, M. D.</b>				
Disposal of Household Wastewater in Soils of High Stone Content (1981-1983),				
W85-01815	1804	5D		
<b>HARRAR, J. E.</b>				
Borehole Collector for in-situ Chemical Analysis of Ground Water,				
W85-00328	1801	7B		
<b>HARREMOES, P.</b>				
Methods For Calculation of Annual and Extreme Overflow Events From Combined Sewer Systems,				
W85-01699	1804	2E		
Review of Rainfall Data Application for Design and Analysis,				
W85-01677	1804	2B		
Staged Approach to Application of Rainfall Data to Urban Runoff Calculations,				
W85-01694	1804	2E		
<b>HARRINGTON, A.</b>				
River Mixing - A State-of-the-Art Report,				
W85-04050	1808	5B		
<b>HARRINGTON, L.</b>				
Review of the Food and Drug Administration Risk Analysis for Polychlorinated Biphenyls in Fish,				
W85-04775	1809	5C		
<b>HARRINGTON, R. A.</b>				
Field Observations of River Bed Scour on the Peace River near Fort Vermilion, Alberta,				
W85-05457	1810	8D		
<b>HARRINGTON, W.</b>				
Policies for Nonpoint-Source Water Pollution Control,				
W85-05943	1811	5G		
<b>HARRIS, A. R.</b>				
Water Quality Effects and Growth Benefits of Entrenching Sewage Sludge in Sandy Forest Soils,				
W85-05384	1810	5E		
<b>HARRIS, B. S.</b>				
Contingent Valuation of Water Pollution Control,				
W85-06605	1812	6A		
<b>HARRIS, G. L.</b>				
Effect of Mole Submergence on the Life of Mole Channels,				
W85-06683	1812	8B		
<b>HARRIS, G. P.</b>				
Phytoplankton Population Dynamics of a Small Reservoir: Effect of Intermittent Mixing on Phytoplankton Succession and the Growth of Blue-green Algae,				
W85-01916	1804	2H		
<b>HARRIS, J.</b>				
Evaluation of Techniques to Estimate Annual Water Quality Loadings to Reservoirs,				
W85-06908	1812	5B		
<b>HARRIS, J. A.</b>				
Chemistry and Application of Ozone and Ultraviolet Light for Water Reuse: Pilot Plant Demonstration,				
W85-05407	1810	5D		
<b>HARRIS, J. E.</b>				
Uptake of Cadmium by the Seagrass <i>Heterozosteria tasmanica</i> from Corio Bay and Western Port, Victoria,				
W85-00784	1802	5B		
<b>HARRIS, J. R. W.</b>				
Preliminary Model of the Dispersal and Biological Effect of Toxins in the Tamar Estuary, England,				
W85-00266	1801	5B		
<b>HARRIS, K.</b>				
Consumptive Use of Water by Major Crops in the Southwestern United States,				
W85-05346	1810	2I		
<b>HARRIS, L. G.</b>				
Ecosystem Definition and Community Structure of the Macrofauna of the NEMP Monitoring Station at Pigeon Hill in the Gulf of Maine,				
W85-05580	1810	2L		
<b>HARRIS, M. T.</b>				
Polishing Treatment of Coal Liquefaction Wastewaters,				
W85-04036	1808	5D		
<b>HARRIS, R. C.</b>				
Changes in the Organic Fraction of Leachate from Two Domestic Refuse Sites on the Sherwood Sandstone, Nottinghamshire,				
W85-03771	1808	5B		
<b>HARRIS, R. U.</b>				
Computer Modeling in Water System Planning and Design,				
W85-01906	1804	5F		
<b>HARRIS, S. A.</b>				
Isotope Geochemistry of Stratified Lake 'A', Ellesmere Island, N.W.T., Canada,				
W85-03195	1806	2H		
<b>HARRISON, D.</b>				
Evaluation Technique for Ground Water Quality Beneath Urban Runoff Retention and Percolation Basins,				
W85-04417	1809	2G		
<b>HARRISON, F. L.</b>				
Toxicity of Copper to the Adult and Early Life Stages of the Freshwater Clam, <i>Corbicula manilensis</i> ,				
W85-02193	1805	5C		
<b>HARRISON, J. R.</b>				
Survey of Combined Trickling Filter and Activated Sludge Processes,				
W85-03329	1807	5D		
<b>HARRISON, M. D.</b>				
Soft Rot Erwinia Bacteria in Surface and Underground Waters in Southern Scotland and in Colorado, United States,				
W85-03297	1807	5B		
<b>HARRISON, P. J.</b>				
Experimental Marine Ecosystem Response to Crude Oil and Corexit 9527: Part 2 - Biological Effects,				
W85-04875	1809	5C		
<b>HARRISON, S. S.</b>				
Contamination of Aquifers by Overpressuring the Annulus of Oil and Gas Wells,				
W85-06820	1812	5B		
<b>HARRISON, W.</b>				
Mined Land Reclamation Using Polluted Urban Navigable Waterway Sediments: III. Experience at a Demonstration Site,				
W85-01289	1803	5G		
<b>HARRISON, W. D.</b>				
Glacier Surge Mechanism: 1982-1983 Surge of Variegated Glacier, Alaska,				
W85-04472	1809	2C		
<b>HARROLD, D. E.</b>				
Characterization and Treatment of Condensates from High Efficiency Appliances,				
W85-07121	1812	5D		
<b>HARROLD, P. E.</b>				
Sediment Transport in the Tanana River near Fairbanks, Alaska, 1980-81,				
W85-01788	1804	2J		
Sediment Transport in the Tanana River near Fairbanks, Alaska, 1982,				
W85-01769	1804	2J		
<b>HARROP-WILLIAMS, K. O.</b>				
Predicting Ground-Water Response to Precipitation,				
W85-02260	1805	2F		
<b>HARSHBARGER, E. D.</b>				
Reservoir Release Improvement,				
W85-05298	1810	5G		
<b>HARSHBARGER, J. W.</b>				
Ground Water Development for Mineral Industry in Arid Zones of the Andean Highlands, South America,				
W85-05045	1810	2F		
<b>HART, B. T.</b>				
Trace Metals in Sediments from the Yarra River,				
W85-00780	1802	5B		
<b>HART, G. E.</b>				
Erosion from Simulated Rainfall on Mountain Rangeland in Utah,				
W85-03354	1807	2J		
<b>HART, K. M.</b>				
Maintenance of Structural Integrity in Freshwater Protozoan Communities Under Stress,				
W85-01012	1802	5C		
<b>HART, R. J.</b>				
Flood-Frequency Estimates for Five Gaged Basins in Wichita, Kansas,				
W85-01949	1804	2A		
<b>HARTE, J.</b>				
Investigation of Acid Precipitation in Qinghai Province, China,				
W85-00247	1801	5B		

## AUTHOR INDEX

**HARTE, J.**

Responses of Lake Waters to Organic Matter Additions, W85-00998 1802 2H

**HARTEMANN, P.**  
Study of Mutagenic Activity in Water in a Progressive Ozonation Unit (Etude du Caractere Mutagene de l'Eau dans une Filiere de Production a Ozonation Estagee), W85-01987 1804 5F

**HARTIG, J. H.**  
Progress in Municipal Phosphorus Control, W85-05981 1811 5G

Seasonal Variation of Nutrient Limitation in Western Lake Erie, W85-04719 1809 2H

**HARTKAMP, H.**  
Determination of Nitrate in Waters by Means of Chromotropic Acid (Bestimmung von Nitrat in Gewassern mit Hilfe von Chromotropsaure), W85-06758 1812 5A

**HARTLEY, D. M.**  
Runoff and Erosion Response of Reclaimed Surfaces, W85-02449 1805 4D

Soil Erosion Potential of Reclaimed Mined Lands, W85-03398 1807 2J

**HARTMAN, R. T.**  
Internal Phosphorus Loading to Shallow Edinboro Lake in Northwestern Pennsylvania, W85-06006 1811 2H

**HARTMAN, W.**  
Waste Hauler/Disposer Meets Pretreatment Guidelines, W85-05260 1810 5F

**HARTMAN, W. A.**  
Arsenic, Cadmium, Lead, Mercury, and Selenium in Sediments of Riverine and Pothole Wetlands of the North Central United States, W85-05472 1810 5A

Effect of Suspended Bentonite Clay on the Acute Toxicity of Glyphosate to *Daphnia pulex* and *Lemma minor*, W85-02419 1805 5C

**HARTMANN, H. C.**  
Resolving Thiessen Polygons, W85-06054 1811 2A

**HARTMANN, L.**  
Optimization and Control of the Activated Sludge Treatment Process by Quasicontinuous Operation: Concept, Strategy and Results, W85-05286 1810 5D

**HARTMANN, P.**  
Rebuilding of the Hydro-Electric Power Station of Spiez (Kraftwerk Spiez Erneuerung 1982-1985), W85-01857 1804 8A

**HARTMANN, U.**  
Studies on Iron and Manganese Removal in a Groundwater Conductor (Untersuchungen zur Enteisenung und Entmanganung im Grundwasserleiter), W85-03527 1807 5F

**HARTNOLL, R. G.**  
Emersion Curve in Semidiurnal Tidal Regimes, W85-00653 1802 2L

**HARTUNG, G.**  
Determination of Chlorine Dioxide and Chlorite in Drinking-Water (Bestimmung von Chlordioxid und Chlorit im Trinkwasser), W85-01664 1804 5F

**HARTWELL, T.**  
Personal Exposure to Volatile Organic Compounds; I. Direct Measurements in Breathing-

Zone Air, Drinking Water, Food, and Exhaled Breath, W85-03041 1806 5A

**HARTZ, K. E.**  
Oxidation of Organic Compounds in Solvent-Refined Coal II Wastewater Via Ultraviolet Irradiation, W85-05273 1810 5D

**HARVEY, E. J.**  
Hydrology of Carbonate Terrane - Niangua, Osage Fork, and Grandglaize Basins, Missouri, W85-00582 1802 2F

**HARVEY, R. S.**  
Coal Ash Basin Effects (Particulates, Metals, Acidic pH) Upon Aquatic Biota: An Eight-Year Evaluation, W85-02980 1806 5C

**HARVEY, R. W.**  
Determination of Munitions Components in Water by Resin Adsorption and High-Performance Liquid Chromatography-Electrochemical Detection, W85-03410 1807 5A

Effect of Organic Contamination upon Microbial Distributions and Heterotrophic Uptake in a Cape Cod, Mass., Aquifer, W85-03736 1807 5C

Separation of Solute and Particulate Vectors of Heavy Metals Uptake in Controlled Suspension-Feeding Experiments with *Macoma balthica*, W85-05863 1811 5C

**HARVEY, T. M.**  
Scheme for the Direct Analysis of Organics in the Environment by Tandem Mass Spectrometry, W85-04656 1809 5A

**HARVEY, T. R.**  
Phytoplankton Standing Stock, Size Distribution, Species Composition and Productivity Along a Trophic Gradient in Green Bay, Lake Michigan, W85-02640 1805 2H

**HARWOOD, L. A.**  
Sublethal Effects of Dispersed Oil on an Estuarine Isopod, W85-06971 1812 5C

**HARZDORF, C.**  
Determination of Chromium(VI) in Waste Water and Industrial Effluents by Differential Pulse Polarography, W85-05526 1810 5A

**HASHIM, O.**  
Relations Between Available and Extractable Soil Water and Evapotranspiration from a Bean Crop, W85-06279 1812 2G

**HASHIMOTO, S.**  
Biological Phosphorus Release from Activated Sludge of Sludge Recycling Nitrification-Denitrification Process, W85-04253 1808 5D

Simultaneous Nitrogen and Phosphorus Removal by Anoxic-Aerobic High Sludge Concentration Activated Sludge Process, W85-04254 1808 5D

**HASKIN, E.**  
Oyster Reefs as Processors of Estuarine Materials, W85-04483 1809 2L

**HASLAUER, J. JR.**  
Effect of Sewage Removal on Lake Water Quality (Fuschlsee, Salzburg, Austria), W85-02525 1805 5C

**HASTENRATH, S.**  
Net Balance, Surface Lowering, and Ice-Flow Pattern in the Interior of Lewis Glacier, Mount Kenya, Kenya, W85-03343 1807 2C

Secular Variation of Ice Flow Velocity at Lewis Glacier, Mount Kenya, Kenya, W85-00676 1802 2C

**HASTINGS, M. P.**  
Minimizing the Possible Effects of a Tidal Power Barrage on the Shorebird Populations of the Severn Estuary, W85-01158 1803 6G

**HASTINGS, R. W.**  
Aquatic Ecology of the New Jersey Pinelands, W85-00814 1802 6G

Distributional Patterns of Sunfishes on the New Jersey Coastal Plain, W85-00280 1801 2H

**HASWELL, S. J.**  
Arsenic Speciation in Soil-Pore Waters From Mineralized and Unmineralized Areas of Southwest England, W85-04662 1809 2K

High-Performance Liquid Chromatography with Hydride Generation/Atomic Absorption Spectrometry for the Determination of Arsenic Species with Application to Some Water Samples, W85-07162 1812 5A

**HASZA, D.**  
Microclimate and Crop Responses to Center Pivot Sprinkler and to Surface Irrigation, W85-05922 1811 3F

**HATFIELD, J. L.**  
Evaluation of Canopy Temperature-Evapotranspiration Models over Various Crops, W85-06196 1812 2D

Evaluation of Cotton Canopy Temperature to Detect Crop Water Stress, W85-03368 1807 2I

Response of Cotton Water Stress Indicators to Soil Salinity, W85-05164 1810 2I

Surface Temperature Variability Patterns Within Irrigated Fields, W85-06688 1812 3F

**HATFIELD, K.**  
Evaluation of the Visibility Criterion of the Massachusetts Sanitary Code for Swimming in Natural Waters, W85-01800 1804 6E

**HATHAWAY, L. R.**  
Ammonium Ion, Humic Materials, and Trihalomethane Potential in Northeastern Kansas Ground Waters, W85-03155 1806 2K

**HATTENBACH, J.**  
Friedrichroda Wastewater Treatment Facility - Results of an Experiment (Klaranlage Friedrichroda - Ergebnisse eines Experiments), W85-01884 1804 5D

**HATTINGH, W. H. J.**  
Setting of Water Quality Standards - South African Experience and Viewpoints, W85-01400 1803 6E

**HATTON, T. A.**  
Dispersion of Trace Solutes in Flowing Groundwater, W85-02667 1805 5B

**HATTORI, Y.**  
Determination of Trialkyltin, Dialkyltin, and Triphenyltin Compounds in Environmental Water and Sediments, W85-03430 1808 5A

## AUTHOR INDEX

HEALEY, M. C.

**HAUBENREISSER, K.**  
Responsibility of the Department of Energy, Environmental Protection, and Water Management of the Dresden City Council for Groundwater Conservation in Drinking-Water Supply Areas (Die Verantwortung der Abteilung Energie, Umweltschutz und Wasserwirtschaft beim Rat der Stadt Dresden für den Schutz des Grundwassers in Trinkwassergewinnungsgebieten),  
W85-03520 1807 6F

**HAUENSTEIN, W.**  
Investigation of Plunging Density Currents Generated by Inflows in Lakes,  
W85-02930 1806 2H

**HAUER, F. R.**  
Invertebrate Colonization of Submerged Wood in a Cypress-Tupelo Swamp and Blackwater Stream,  
W85-05120 1810 2H

**HAUG, J. K.**  
Report of the Class I and II Cultural Resources Investigations of a Portion of the Cendak Water Project Area, Eastern South Dakota, Volume I. Archaeological Sampling Survey of the East Half of the Proposed Cendak Irrigation System, W85-04196 1808 6E

**HAUG, W.**  
Reconstruction of Bituminous Slope Linings at Dams and Pumped-Storage Reservoirs (Regeneration von Asphaltabendichtungen bei Staudämmen und Pumpspeicherbecken),  
W85-03255 1807 8A

**HAUGH, J. S.**  
Safety of Non-Federal Dams: Who's Responsible,  
W85-00944 1802 8A

**HAUSER, V. L.**  
Neutron Meter Calibration and Error Control, W85-03375 1807 2G

Runoff, Soil, and Nutrient Losses from Rangeland and Dry-Farmed Cropland in the Southern High Plains,  
W85-05970 1811 5B

**HAUX, C.**  
Biochemical and Hematological Studies on Perch, *Perca fluviatilis*, from the Cadmium-Contaminated River Eman,  
W85-00272 1801 5C

Long-Term Sublethal Physiological Effects on Rainbow Trout, *Salmo gairdneri*, during Exposure to Cadmium and after Subsequent Recovery,  
W85-00881 1802 5C

**HAVAS, M.**  
Red Herrings in Acid Rain Research,  
W85-00288 1801 5B

**HAVASI, P.**  
Determination of Inorganic Anions in River Waters by Column-Coupling Capillary Isotachophoresis,  
W85-02304 1805 7B

**HAVAUX, M.**  
Chlorophyll Fluorescence Induction: A Sensitive Indicator of Water Stress in Maize Plants,  
W85-05931 1811 2I

**HAVELAAR, A. H.**  
Method for the Enumeration of Male-Specific Bacteriophages in Sewage,  
W85-01149 1803 5A

**HAVEN, D. S.**  
Uptake of Kepone from Sediment Suspensions and Subsequent Loss by the Oyster *Crassostrea virginica*,  
W85-01897 1804 5B

**HAVENS, J. S.**  
Numerical Simulation of the High Plains Regional Aquifer, Northwestern Oklahoma,  
W85-03899 1808 2F

Water-Level Changes in the High Plains Regional Aquifer, Northwestern Oklahoma, Development to 1980,  
W85-01771 1804 2F

**HAVENS, K.**  
Effect of Acidification in Enclosures on the Biomass and Population Size Structure of *Bosmina longirostris*,  
W85-06388 1812 5C

**HAVENS, K. E. III**  
Effects of Acidification and Phosphorus Addition on Phytoplankton Biomass and Productivity in a Circum-Neutral Mesotrophic Lake Receiving Acid Precipitation,  
W85-03123 1806 5C

**HAVERKAMP, R.**  
Flux and Water Content Relation at the Soil Surface,  
W85-06538 1812 2G

**HAVILL, D. C.**  
Influence of Sulphide on the Distribution of Higher Plants in Salt Marshes,  
W85-03741 1807 2L

**HAVLIK, B.**  
Cumulation of Zinc, Cadmium and Mercury on the Alga *Scenedesmus obliquus*,  
W85-06268 1812 5C

Migration and Speciation of Lead in a River System Heavily Polluted From a Smelter,  
W85-04484 1809 5B

**HAWKES, H. A.**  
Acute Toxicity of Ammonia and Copper to the Gastropod *Potamopyrgus jenkinsi* (Smith),  
W85-03042 1806 5A

Studies on the Effects of Sewage Effluent on Gastropod Populations in Experimental Streams,  
W85-03540 1807 5C

**HAWKINS, S. J.**  
Emersion Curve in Semidiurnal Tidal Regimes,  
W85-00653 1802 2L

**HAWEY, M. E.**  
Acid Precipitation: Natural Versus Anthropogenic Components,  
W85-06060 1811 2K

**HAWEY, P. M.**  
Remedial Measures for Debris Flows at the Agassiz Mountain Institution, British Columbia,  
W85-03426 1807 2J

**HAWTHORNE, A. R.**  
DUVAS As a Real-Time, Field-Portable Wastewater Monitor for Phenolics,  
W85-01159 1803 7B

**HAYANO, S.**  
Material Balance Analysis for Fluoride Ions in Experimental Waste Disposal Plant,  
W85-01732 1804 5D

**HAYASE, K.**  
Application of Reversed-Phase Liquid Chromatography to Dissolved Organic Matter in Estuarine Seawater,  
W85-07065 1812 5A

**HAYASHI, K.**  
Biodegradation of Linear Alkylbenzene Sulfonates and Soap in River Water (in Japanese),  
W85-03508 1807 5B

Existence of Anionic Surfactants in River (in Japanese),  
W85-00191 1801 5A

**HAYES, C. R.**  
Evaluation of Eutrophication Impact in Public Water Supply Reservoirs in East Anglia,  
W85-04451 1809 5C

**HAYES, J. C.**  
Performance of Grass Filters Under Laboratory and Field Conditions,  
W85-04729 1809 2J

**HAYES, J. T.**  
Actual and Potential Yield for Rainfed and Irrigated Wheat in China,  
W85-01057 1802 3F

Crop Water Requirements for Rainfed and Irrigated Wheat in China and Korea,  
W85-06687 1812 6D

**HAYES, P. S.**  
Airborne Microwave Measurements of the Southern Greenland Ice Sheet,  
W85-04962 1809 2C

**HAYES, R. D.**  
Regional Flood Relations for Unregulated Lakes in West Central Florida,  
W85-03960 1808 2E

Water Resources Data, South Carolina, Water Year 1982,  
W85-01937 1804 2E

**HAYES, S. P.**  
California State Mussel Watch, 1981-1983, Biennial Report,  
W85-06333 1812 5C

**HAYEUR, G.**  
Evaluation of Ecological Forecasting Previous to the Hydroelectric Development of a Natural Subarctic Reservoir (Evaluation et Prévision Ecologique Préalable à L'Aménagement Hydroélectrique D'un Reservoir Naturel Hémisphérique),  
W85-04575 1809 6G

**HAYHOE, H. N.**  
Diffusion-Based Soil Water Simulation for Native Grassland,  
W85-03482 1807 2G

**HAYMES, G. T.**  
Attraction of Fish to Mercury Vapour Light and Its Application in a Generating Station Forebay,  
W85-04914 1809 8I

**HAYTON, W. L.**  
Pharmacokinetic Model for the Uptake and Disposition of Di-2-Ethylhexyl Phthalate in Sheepshead Minnow *Cyprinodon variegatus*,  
W85-02377 1805 5C

**HAYWARD, S. B.**  
Chrysotile Asbestos in California Surface Waters: From Upstream Rivers Through Water Treatment,  
W85-00704 1802 5B

**HAZEN, T. C.**  
Effect of Effluent from a Nitrogen Fertilizer Factory and a Pulp Mill on the Distribution and Abundance of *Aeromonas hydrophila* in Albemarle Sound, North Carolina,  
W85-00096 1801 5C

**HE, L.**  
Relationships Between Arsenic and Other Elements (Iron, Aluminium, Manganese etc) in Surface Sediments of Bohai Bay (in Chinese),  
W85-04835 1809 2K

**HEALEY, F. P.**  
Metal Toxicity to Algae: A Highly pH Dependent Phenomenon,  
W85-01494 1803 5C

**HEALEY, M. C.**  
Reviewing the Status of Canada's Aquatic Resources,  
W85-06429 1812 6B

## AUTHOR INDEX

**HEALEY, M. G.**

**HEALEY, M. G.**  
Guidelines for the Utilisation of Sewage Sludge on Land in the United Kingdom, W85-04004 1808 5E

**HEALY, J. A.**  
Electroanalysis of Organic Pollutants in Aquatic Matrices, W85-02310 1805 5A

**HEALY, R. P.**  
Preliminary Findings of the Priority Pollutant Monitoring Project of the Nationwide Urban Runoff Program, W85-01661 1804 5A

**HEALY, T. R.**  
Sedimentology and Evolution of Ohiwa Harbour, a Barrier-Impounded Estuarine Lagoon in Bay of Plenty, W85-06798 1812 2L

**HEARD, T. R.**  
Application of Science to Water Supply Projects in Developing Countries, W85-06575 1812 5F

**HEARN, A. B.**  
Irrigation for Crops in a Sub-Humid Environment, VII. Evaluation of Irrigation Strategies for Cotton, W85-05165 1810 3F

**HEATH, A. G.**  
Alterations in Tissue Water Balance and Adenylates of Bluegill (*Lepomis macrochirus*) Exposed to Copper, W85-03898 1811 5C

Interactions of Temperature and Sublethal Environmental Copper Exposure on the Energy Metabolism of Bluegill, *Lepomis macrochirus* Rafinesque, W85-03003 1806 5C

**HEATH, R. C.**  
Basic Ground-Water Hydrology, W85-00036 1801 2F

Classification of Ground-Water Systems of the United States, W85-00318 1801 2F

Ground-Water Regions of the United States, W85-00037 1801 2F

**HEATHCOTE, J. A.**  
Groundwater Chemistry in Southeast Suffolk (U.K.) and Its Relation to Quaternary Geology, W85-04272 1808 2K

**HEBDEN, D.**  
Some Aspects of the Use of Oxidation Techniques in the Treatment of Sewage, W85-04822 1809 5D

**HEBERT, J. R.**  
Effects of Water Quality and Water Quantity on Nutritional Status: Findings from a South Indian Community, W85-06216 1812 5C

**HEBERT, P. D. N.**  
Ecological Significance of Upwelling Events in Lake Ontario, W85-01357 1803 2H

**HECKEL, E.**  
Free Fluoride of the Pamlico River in North Carolina; A New Method to Localize the Discharge of Polluted Water into an Estuary, W85-03539 1807 5B

**HECKER, G. E.**  
Scale Effects in Pump Sump Models, W85-03775 1808 8C

**HECKMAN, C. W.**  
Effects of Dike Construction on the Wetland Ecosystem Along the Freshwater Section of the Elbe Estuary, W85-03120 1806 6G

**HECKY, R. E.**  
Comparison of Phosphorus Turnover Times in Northern Manitoba Reservoirs with Lakes of the Experimental Lakes Area, W85-00636 1802 2H

Effect of Impoundment and Diversion on the Sediment Budget and Nearshore Sedimentation of Southern Indian Lake, W85-00633 1802 6G

Environmental Impact Prediction and Assessment: The Southern Indian Lake Experience, W85-00645 1802 6G

Increases in Fish Mercury Levels in Lakes Flooded by the Churchill River Diversion, Northern Manitoba, W85-00640 1802 5B

Primary Productivity of Southern Indian Lake before, during, and after Impoundment and Churchill River Diversion, W85-00635 1802 6G

Southern Indian Lake Impoundment and Churchill River Diversion, W85-00631 1802 6G

Thermal and Optical Characteristics of Southern Indian Lake before, during and after Impoundment and Churchill River Diversion, W85-00634 1802 6G

Transport of Carbon, Nitrogen, Phosphorus, and Major Solutes in the Gambia River, West Africa, W85-02220 1805 2H

**HEDSTROM, W. E.**  
Alalfa Growth and Soil Oxygen Diffusion as Influenced by Depth to Water Table, W85-02877 1806 2G

**HEDTKE, S. F.**  
Structure and Function of Copper-Stressed Aquatic Microcosms, W85-02378 1805 5C

**HEDE, B. H.**  
Gully Rehabilitation - A Three-Stage Process in a Sodic Soil, W85-03967 1808 4D

Overland Flow and Sediment Delivery: An Experiment with Small Subdrainage in Southwestern Ponderosa Pine Forests (Colorado, U.S.A.), W85-01612 1803 2J

**HEEPE, R.**  
Development of the Schwarzeide Chemical Synthesis Works in the Field of Wastewater and By-product Treatment (Entwicklung des VEB Synthesewerk Schwarzeide auf dem Gebiet der Abwasser- und Abproduktbehandlung), W85-01881 1804 5D

**HEERMANN, D. F.**  
Integrated Water-Energy Management System for Center Pivot Irrigation: Functional Requirements, W85-04742 1809 7C

Integrated Water-Energy Management System for Center Pivot Irrigation: Implementation, W85-04743 1809 7C

Real Time Irrigation Scheduling via 'Reaching' Dynamic Programming, W85-02155 1804 3F

**HEGAZI, N. A.**  
Interactions of the Molluscicide 'Baylusicide' with Development of Dinitrogen Fixers and Their N2ase and Respiratory Activities in Water, W85-04058 1808 5C

**HEGEMANN, W.**  
Combination of the Activated Sludge Process with Fixed Film Biomass to Increase the Capacity of Waste Water Treatment Plants, W85-03643 1807 5D

**HEGG, B. A.**  
Achieving Wastewater Compliance with Reduced Grant Support, W85-02582 1805 5D

Ozone Disinfection Design and Operation Considerations, W85-05827 1810 5D

**HEGG, R. O.**  
Irrigation of Swine Lagoon Effluent onto Pine and Hardwood Forests, W85-04741 1809 5D

**HEGGIE, D.**  
Sediment-Water Exchange in Shallow Water Estuarine Sediments, W85-02473 1805 5B

**HEGLAND, M.**  
Current Meter Calibration and Three-Dimensional Displacement Effects, W85-00526 1802 7B

**HEIDARI, M.**  
Identification of an Optimal Groundwater Management Strategy in a Contaminated Aquifer, W85-03141 1806 4B

**HEILINGER, R. C.**  
Relative Effects of Chlorine and Ammonia from Wastewater Treatment Facilities on Stream Biota, W85-06342 1812 5C

**HEILMANN, K.**  
Reduction of the Use of Materials with the Aid of Science and Technology at the Hydrotechnology and Water-Management-Planning Combine (Senkung des Produktionsverbrauchs mit Hilfe von Wissenschaft und Technik im VEB Kombinat Wassertechnik und Projektierung Wasserwirtschaft), W85-01968 1804 5D

**HEIM, C.**  
Detection of Elementary Sulphur in Freshwater Sediments, W85-02746 1806 5A

Gas Chromatographic Method for the Determination of Elemental Sulphur in Sediments, W85-02305 1805 5A

**HEIMLICH, R. E.**  
Improved Soil Erosion Classification for Conservation Policy, W85-03351 1807 2J

**HEIN, J. C.**  
Oxidation of Organic Compounds in Solvent-Refined Coal II Wastewater Via Ultraviolet Irradiation, W85-05273 1810 5D

**HEINECKE, T. L.**  
Key to Effective I/I Control, W85-02739 1802 5D

**HEINEMANN, T. J.**  
Concurrent Development of an Industrial Waste Pretreatment Program and Residual Solids Management Plan, W85-02572 1805 5D

**HEINONEN, P.**  
Alkalinity and Chemical Oxygen Demand in Some Finnish Rivers During the Periods 1911-1931 and 1962-1979, W85-06291 1812 5B

## AUTHOR INDEX

**HENDERSON-SELLERS, B.**

Method for Estimation of Sliming of Nets in Lake Waters, W85-03679	1807 5A	Sampling Tubing Effects on Groundwater Samples, W85-04655	1809 7B	Evaluating and Improving Existing Ground-Water Systems, W85-00319	1801 4B
Quantity and Composition of Phytoplankton, Particularly Chlorophyta, in Lakes of Different Trophic Levels, W85-05065	1810 2H	HELFRICH, J. C. Problems in Pollution Response Liability under Federal Law: FWPRA Section 311 and the Superfund, W85-02172	1805 6E	Problems with Traditional Small Reservoir Irrigation Systems in the Semi Arid Tropics, W85-04747	1809 4A
Rapid Biological Method for the Monitoring of Eutrophication, W85-02526	1805 7B	HELGESEN, J. O. Regional Study of the Dakota Aquifer (Darton's Dakota Revisited), W85-00320	1801 2F	HELZ, G. R. Dechlorination and Trihalomethane Yields, W85-06527	1812 5F
HEINZ, G. H. High PCB Residues in Birds from the Sheboygan River, Wisconsin, W85-06288	1812 5C	HELIKER, C. C. Nisqually Glacier, Mount Rainier, Washington, 1857-1979: A Summary of the Long-Term Observations and a Comprehensive Bibliography, W85-00039	1801 2C	HEM, J. D. Development of a Model to Predict the Adsorption of Lead from Solution on a Natural Streambed Sediment, W85-00604	1802 5B
HEIP, C. Influence of Pollution on the Harpacticoid Co-pods of Two North Sea Estuaries, W85-00795	1802 5C	HELLMANN, H. Application of 'Head-Space' Analysis to Determining Readily Volatile Chlorinated Hydrocarbons in Surface Waters (Anwendung des 'Head-Space' - Verfahrens auf die Bestimmung leichtflüchtiger chlorierter Kohlenwasserstoffe in Oberflächengewässern), W85-07027	1812 5A	HEMAIN, J.-C. Flood Protection in the Loire Valley Downstream Vienne Confluence (Protection des Vals de Loire en Aval de la confluence avec la Vienne), W85-02355	1805 4A
HEISEY, R. M. Copper and Lead Uptake by Aquatic Macrophytes in Eastern Connecticut, U.S.A., W85-01084	1802 5B	HEMENWAY, D. R. Microbial Contamination of Potable Water in Distribution Systems, W85-01796	1804 5F	HEMKER, C. J. General Purpose Microcomputer Aquifer Test Evaluation Technique, W85-05847	1810 2F
HEISIG-GUNKEL, G. Investigations on the Limnology of Small Fertilized Ponds (Untersuchungen zur Limnologie gedüngter Kleinteiche), W85-04060	1808 2H	HESTEKIN, S. Primary Production of Phytoplankton in the Oligohumic Kitka Lakes in Northern Finland, W85-03680	1807 2H	Steady Groundwater Flow in Leaky Multiple-Aquifer Systems, W85-01617	1803 2F
HEIT, M. Relationship of a Coal Fired Power Plant to the Levels of Polycyclic Aromatic Hydrocarbons (PAH) in the Sediment of Cayuga Lake, W85-05038	1810 5B	HELLWIG, A. Single Spectrophotometric Determination of k-Surfactants in the Presence of a-and n-Surfactants (Einfache Spektrophotometrische Bestimmung von k-Tensiden in Gegenwart von a- und n-Tensiden), W85-03414	1807 5A	HEMMING, J. Method for Total Organic Chlorine Determination in Bleach Plant Recipient Waters, W85-01962	1804 5A
Trace Element Concentrations in the Dorsal Muscle of White Suckers and Brown Bullheads from Two Acidic Adirondack Lakes, W85-06889	1812 5C	HELLSTEN, S. Primary Production of Phytoplankton in the Oligohumic Kitka Lakes in Northern Finland, W85-03680	1807 2H	HEMOND, H. F. Neutralization of Acid Deposition by Nitrate Retention at Bickford Watershed, Massachusetts, W85-03572	1807 5C
HEITKAMP, M. A. Environmental and Chemical Factors Influencing the Biodegradation of Phthalic Acid Esters in Freshwater Sediments, W85-02743	1806 5B	HELLWIG, J. D. Fate and Effectiveness of Tebuthiuron Applied to a Rangeland Watershed, W85-01285	1803 5B	HENDERSON, A. Leakages in Urban Water Systems: Village Creek, Canberra, Australia, W85-06603	1812 5F
Impact of an Oil Field Effluent on Microbial Activities in a Wyoming River, W85-01640	1804 5C	HELVER, J. D. Laboratory Investigation of Leachate Chemistry from Six Appalachian Forest Floor Types Subjected to Simulated Acid Rain, W85-06721	1812 2K	HENDERSON, A. R. Long Term Monitoring of the Macrobenthos of the Upper Clyde Estuary, W85-01412	1803 2L
HEKMAN, W. E. Responses of Certain Freshwater Planktonic Algae to Fluoride, W85-01176	1803 5C	HELMER, J. D. Plant Nutrient Losses by Soil Erosion and Mass Movement after Wildfire, W85-05972	1811 2J	HENDERSON, D. W. Developing the Resource Potential of a Shallow Water Table, W85-01832	1804 3B
HELBIG, V. Aspects of Evaluating the Rehabilitation of the Foundation at the Muldenburg Dam (Einige Aspekte zur Auswertung der Untergrundsanierung an der Talsperre Muldenberg), W85-03454	1807 8A	HELWEG, O. Impact of Water Degradation on Regional Agricultural Economy, W85-01513	1803 4B	HENDERSON, J. E. Handbook of Environmental Quality Measurement and Assessment: Methods and Techniques, W85-06897	1812 6G
HELD, K. A. A. Water Use Efficiency of Cassava. II. Differing Sensitivity of Stomata to Air Humidity in Cassava and Other Warm-Climate Species, W85-01109	1802 2I	HELWEG, O. Modeling the California State Water Project, W85-04245	1808 4A	HENDERSON, M. Precipitation Gage Network Operations for Wintertime Research in the Central Sierra Nevada, W85-06925	1812 2B
HELD, P. Computerized Scheme for Chemical Classification of Natural Waters and Soil Extracts, W85-03970	1808 2K	HELWEG, O. J. Cost Effective Operation of Urban Water Supply System Using Dynamic Programming, W85-06241	1812 5F	HENDERSON, S. E. Hydrology of Lake Padgett, Saxon Lake, and Adjacent Area, Pasco County, Florida, W85-01826	1804 7C
HELDER, W. One-Dimensional Mixing and Flushing Model of the Ems-Dollard Estuary: Calculation of Time Scales at Different River Discharges, W85-01838	1804 2L	HELFRICH, J. A. Economics of Improving Well and Pump Efficiency, W85-00333	1801 4B	HENDERSON-SELLERS, B. Methods of Assessing the Trophic State of Lakes and Reservoirs, W85-01437	1803 2H
HELFRICH, J. A. Laboratory Evaluation of Ground Water Sampling Mechanisms, W85-00364	1801 5A			Pumped-storage Hydropower Schemes: Integral Plume Models for Pumpback Simulations, W85-04158	1808 8B

## AUTHOR INDEX

### HENDERSON-SELLERS, B.

Variability in Phosphorus Concentrations in North Temperate Lakes: A Case Study of Anthropogenic Forcing, W85-02652	1805 5C	HENNIGAN, R. D. Water Supply Source Protection Rules and Regulations Project, W85-00046	1801 6E	HERBST, G. N. Distributional Patterns and Habitat Characteristics of Amphipoda (Crustacea) in the Inland Waters of Israel and Sinai, W85-00395	1801 2H
HENDERSON, T. Computer-Assisted Data Processing and Analysis System for Ground-Based Meteorological Data Collection, W85-06924	1812 7C	HENNINGAR, G. W. Water Leakage Control and Sonic Detection, W85-04692	1809 3D	HERCZEG, A. L. Determination of Hydrogen Ion Concentration in Softwater Lakes Using Carbon Dioxide Equilibria, W85-00298	1801 2K
Precipitation Gage Network Operations for Wintertime Research in the Central Sierra Nevada, W85-06925	1812 2B	HENNINGTON, S. M. Seasonal Growth and Community Composition of Phytoplankton in a Eutrophic Wisconsin Impoundment, W85-04311	1808 2H	New Method for Monitoring Temporal Trends in the Acidity of Fresh Waters, W85-07143	1812 5A
HENDREY, G. R. Early Biotic Responses to Advancing Lake Acidification, W85-04198	1808 5C	HENRIKSEN, A. Changes in Base Cation Concentrations Due to Freshwater Acidification, W85-04532	1809 5C	HERD, J. S. Airborne Microwave Measurements of the Southern Greenland Ice Sheet, W85-04962	1809 2C
Effect of Lake pH on Microbial Decomposition of Allochthonous Litter, W85-04200	1808 5C	HENRIQUES, P. R. Preliminary Investigation on Effects of Fluctuating Flows on Invertebrates of the Hawea River, a Large Regulated River in New Zealand, W85-04668	1809 2H	HEREFORD, R. Climate and Ephemeral-Stream Processes: Twentieth-Century Geomorphology and Alluvial Stratigraphy of the Little Colorado River, Arizona, W85-01606	1803 2E
HENDRICKS, A. C. Leaf Litter Processing in a Virginia Reservoir: The Role of Temperature and Fish, W85-05632	1810 2H	HENRY, C. Idaho's Swan Falls Controversy Points to New Era for Water Rights, W85-01038	1802 6E	HERKE, W. H. Comprehensive Estuarine Nursery Study Completed, W85-04392	1808 2L
HENDRICKS, D. W. Dissolved Solids Hazards in the South Platte Basin, Vol. I: Salt Transport in the River, W85-00115	1801 5B	HENRY, D. D. Epilimnetic Nutrient Loading by Metalimnetic Erosion and Resultant Algal Responses in Lake Waramaug, Connecticut, W85-02093	1804 2H	HERKELRATH, W. N. Time-Domain Reflectometry: Simultaneous Measurement of Soil Water Content and Electrical Conductivity with a Single Probe, W85-00220	1801 7B
Dissolved Solids Hazards in the South Platte Basin, Vol. II: Salt Balance Analysis, W85-00063	1801 5B	HENRY, F. S. Numerical Estuarine Flow Model, W85-04987	1810 2L	HERLEVICH, A. Evaluation of Pumps and Motors for Photovoltaic Water Pumping Systems, W85-06988	1812 8C
Removing Giardia Cysts with Slow Sand Filtration, W85-04831	1809 5F	HENRY, F. S. Numerical Model of Pollution Transport in Estuaries, W85-04988	1810 5B	HERLIHY, A. T. Sulfate Reduction in Freshwater Sediments Receiving Acid Mine Drainage, W85-04263	1808 5B
HENDRICKSON, O. JR. Riparian Forests as Nutrient Filters in Agricultural Watersheds, W85-00127	1801 2I	HENRY, J. A. Drought in Southeastern United States, W85-01642	1804 2B	HERLONG, H. E. Water Resources Data, South Carolina, Water Year 1982, W85-01937	1804 2E
HENDRIKSON, J. G. Gasifier Wastewater Treatment: Phase I Cooling Tower Assessment, W85-04879	1809 5D	HENRY, J. G. Commercial Mining Technique Offers a New Approach to Removing Heavy Metals from Sludges, W85-04767	1809 5D	HERMANN, A. J. Evapotranspiration of a Florida, U.S.A., Freshwater Wetland, W85-03759	1807 2D
HENDRON, A. J. JR. Seismic Hydrodynamic Forces on Rock Slopes, W85-02262	1805 8E	HENRY, R. Effects of Phosphorus and Nitrogen Enrichment on the Phytoplankton in a Tropical Reservoir (Lobo Reservoir, Brazil), W85-03694	1807 2H	HERMANUTZ, R. O. Toxicity of Endrin and Malathion Mixtures to Flagfish ( <i>Jordanella floridae</i> ), W85-07156	1812 5C
HENDRY, C. D. Precipitation Chemistry at Turrialba, Costa Rica, W85-03568	1807 2K	HENTRICH, R. L. JR. Doing a Job on Data, W85-04651	1809 7C	HERMENS, J. Joint Effects of a Mixture of 14 Chemicals on Mortality and Inhibition of Reproduction of <i>Daphnia magna</i> , W85-03688	1807 5C
HENDRY, M. J. Hydraulic Conductivity of a Glacial Till in Alberta, W85-00302	1801 4B	HEPLER, P. R. Alfalfa Growth and Soil Oxygen Diffusion as Influenced by Depth to Water Table, W85-02877	1806 2G	Quantitative Structure-Activity Relationships and Mixture Toxicity of Organic Chemicals in <i>Photobacterium phosphoreum</i> : The Microtox Test, W85-05809	1810 5C
Relationships between Saturated Hydraulic Conductivity and Some Physical and Chemical Properties, W85-00339	1801 2G	HERBERT, D. Use of Isotope Methods in Hydrogeology, W85-04109	1808 2F	Quantitative Structure-Activity Relationships and Mixture Toxicity Studies of Chloro- and Alkylanilines at an Acute Lethal Toxicity Level to the Guppy ( <i>Poecilia reticulata</i> ), W85-02702	1806 5C
HENDZEL, M. R. Gas Chromatographic Determination of Picrozam in Fish, W85-04433	1809 5A	HERBERT, R. Pumping Tests in Patchy Aquifers, W85-00300	1801 4B	Quantitative Structure-Activity Relationships and Toxicity Studies of Mixtures of Chemicals with Anaesthetic Potency: Acute Lethal and Sublethal Toxicity to <i>Daphnia magna</i> , W85-00882	1802 5C
HENEBSY, M. S. Protozoan Colonization Rates and Trophic Status of Some Freshwater Wetland Lakes, W85-04657	1809 2H	HERBES, S. E. Persistence of Phenols in Aquatic Microcosms Receiving Chronic Inputs of Coal-Derived Oil, W85-05700	1810 5B		
HENNIG, G. Modeling of Groundwater Conditions in the Leipzig-Delitsch Mining Region (Modellierung der Grundwasserhaushalte im Bergbaugebiet Leipzig-Delitsch), W85-04321	1808 2F				

## AUTHOR INDEX

HIELTJES, A. H. M.

<b>HERMICHEN, W.-D.</b>	Rapid Biological Method for the Monitoring of Eutrophication,	1805	7B	Forests, Floods, and Erosion: A Watershed Experiment in the Southeastern Piedmont,	1804	2J
Lake Untersee, a First Isotope Study of the Largest Freshwater Lake in the Interior of East Antarctica, W85-07142	W85-02526			W85-01705		
		1812	2H			
<b>HERN, S. C.</b>	Closed Formulas for Earthquake-Induced Deformations in Dams,	1809	8D			
Transport of Organic Carbon in the Atchafalaya Basin, Louisiana, W85-00396	W85-04782			HEYMAN, U.		
		1801	2H	Frequency Distributions of Water Quality Variables; Relationships Between Mean and Maximum Values, W85-00553	1802	5B
<b>HERODEK, S.</b>	Simpliest Approximate Computation of Dam-break Waves (Die Einfachste Naherungsberechnung von Dammbrechwellen),	1809	8B	Variation of Water Quality Parameters in Mesotrophic Lakes, W85-04536	1809	2H
Eutrophication of Lake Balaton: Measurements, Modeling and Management, W85-04562	W85-04630			HICKLEY, C. W.		
		1809	5C	Modifications to Electrolytic Respirometer Systems for Precise Determination of BOD Excretion Kinetics in Receiving Waters, W85-06734	1812	7B
Orthophosphate Uptake of Planktonic Microorganisms in Lake Balaton, W85-06389	W85-01814			HICKLEY, J. J.		
		1812	2H	Field Testing the Hypothesis of Darcian Flow through a Carbonate Aquifer, W85-02686	1805	4B
<b>HERON, R.</b>	Chemical Study of the Interstitial Water Dissolved Organic Matter and Gases in Lake Erie, Cleveland Harbor, and Hamilton Harbour Bottom Sediments—Composition and Fluxes to Overlying Waters,	1804	5B	Subsurface Injection of Treated Sewage into a Saline-Water Aquifer at St. Petersburg, Florida—Water-Quality Changes and Potential for Recovery of Injected Sewage, W85-01526	1803	5D
Basal Ice in High Arctic Snowpacks, W85-00237	W85-01814			HICKLEY, M. G.		
		1801	2C	Chemical Partitioning of Cadmium, Copper, Nickel and Zinc in Soils and Sediments Containing High Levels of Heavy Metals, W85-01284	1803	5B
<b>HERRERA, W. A. T.</b>	Determination of Hydrogen Ion Concentration in Softwater Lakes Using Carbon Dioxide Equilibria, W85-00298	1801	2K	HICKIN, E. J.		
Drought Response of Grain Legumes Under Irrigation Gradient: II. Plant Water Status and Canopy Temperature, W85-03355	W85-00298			Lateral Migration Rates of River Bends, W85-03776	1808	2J
		1807	2I			
<b>HERRICKS, E. E.</b>	Geochemical Pathways and Biological Uptake of Radium in Small Canadian Shield Lakes, W85-00153	1801	5B	<b>HICKMAN, M.</b>		
Complying with NPDES Permit Limits: When is a Violation a Violation, W85-07038	W85-00153			Seasonal Physical, Chemical and Algal Changes in Five Rivers Flowing Through the Oil Sands Region of Alberta, Canada, W85-02562	1805	2E
		1812	6E			
<b>HERRMANN, A.</b>	Ground Water in the Greater Atlanta Region, Georgia, W85-00866	1802	2F	Seasonal Spatial and Temporal Phytoplankton Changes in a Shallow Eutrophic Lake, W85-02282	1805	2H
Application of Tracer Techniques for Determining the Water Balance in Small Catchment Basins; A Research Concept for the Experimental Basins in the Upper Harz Mountains (Anwendung von Tracermethoden zur Erfassung des Wassersatzes in kleinen Einzugsgebieten; Ein Forschungskonzept für die Oberharzer Untersuchungsgebiete), W85-04804	W85-00866			<b>HICKMAN, N. J.</b>		
		1809	2A	Light Climate in the Gippsland Lakes, Victoria, W85-03495	1807	2H
<b>HERRMANN, J.</b>	Influence of Chlorine on the Susceptibility of Striped Bass ( <i>Morone saxatilis</i> ) to <i>Vibrio anguillarum</i> , W85-03001	1806	5C			
Animal Community Structure as a Function of Stream Size, W85-00426	W85-03001			<b>HICKOK, E. A.</b>		
		1801	2H	Choosing Sewage Ash Disposal Sites in the Twin Cities Metropolitan Area, W85-05366	1810	5D
<b>HERRMANN, R.</b>	Latest Results at the Deep-Current Aeration Facility in Rovno (USSR) (Neueste Ergebnisse über die Tiefstrombelüftungsanlage in Rovno (UdSSR)), W85-03460	1807	5D			
Behaviour of Organic Micropollutants (PAH, PCB, and BHC) and of a Fecal Sterol in the Husum Estuary and in the Adjacent North Frisian Wadden Sea (Verhalten organischer Umweltchemikalien (PCA, PCB und HCH) und eines fakalen Sterols in der Husumer Aue und auf den angrenzenden Wattern - Nordfriesland), W85-04808	W85-03460			<b>HICKS, B. J.</b>		
		1809	5B	Stable Carbon Isotope Ratios of Fish and Their Invertebrate Prey in Four New Zealand Rivers, W85-06416	1812	2H
Behaviour of Polycyclic Aromatic Hydrocarbons in the Exe Estuary, Devon, W85-01841	W85-01841			<b>HICKS, L. N.</b>		
		1804	5B	Development of a Sludge/Refuse Co-Disposal Program, W85-05367	1810	5E
Behaviour of Some PAH, PCB and Organochlorine Pesticides in an Estuary, a Comparison - Exe, Devon, W85-03286	W85-03286			<b>HICKS, R. E.</b>		
		1807	5B	Growth of Bacteria and the Fungus <i>Phaeosphaeria Typharum</i> (Desm.) Holm (Eumycota:Ascomycotina) In Salt-Marsh Microcosms in the Presence and Absence of Mercury, W85-01163	1803	5C
<b>HERSHELMAN, G. P.</b>	Effects of Various Organic Chemicals on the Regreening of Red Colored Chlorella zofingiensis, W85-05814	1810	5A			
Detoxification/Toxicification of Cadmium in Scorpionfish ( <i>Scorpaena guttata</i> ): Acute Exposure, W85-00878	W85-05814			<b>HICKS, W. S.</b>		
		1802	5A	Residues Related to Agricultural Chemicals in the Groundwaters of the Burdekin River Delta, North Queensland, W85-04039	1808	5B
<b>HERSHFIELD, D. M.</b>	Additional Tests on the Effect of Rainfall Intensity on Storm Flow and Peak Flow from Wild-Land Basins, W85-02166	1804	2E	<b>HIDALGO, J.</b>		
Some Statistical Properties of Short-Duration Rainfall, W85-01681	W85-02166			Short-term Cadmium Effects on Gill Tissue Metabolism, W85-04381	1808	5C
		1804	2B			
<b>HERSHNER, C.</b>	Dependence of Storm Flows on Rainfall Intensity and Vegetal Cover in South Africa, W85-04284	1808	2E	<b>HIELTJES, A. H. M.</b>		
Effects of the Herbicide Atrazine on Adenine Nucleotide Levels in <i>Zostera marina</i> L. (eel-grass), W85-01888	W85-04284			Dynamic Phosphate Budget Model for a Eutrophic Lake, W85-02072	1804	2H
		1804	5C			
<b>HERVE, S.</b>	Effect of Clear-Cut Silviculture on Dissolved Ion Export and Water Yield in the Piedmont, W85-02171	1804	5B			
Method for Estimation of Sliming of Nets in Lake Waters, W85-03679	W85-02171					
		1807	5A			

## AUTHOR INDEX

### **HIETANEN, E.**

**HIETANEN, E.**  
Acidification of Water and Extrahepatic Bio-transformation in Fish,  
W85-02591 1805 5C

**HIGASHI, S.**  
Effect of Channel Alteration on Fish Habitat,  
W85-03507 1807 6G

**HIGGINS, A. J.**  
Environmental Constraints of Sludge Application,  
W85-01185 1803 5E

Impacts on Groundwater Due to Land Application of Sewage Sludge,  
W85-01381 1803 5E

Land Application of Sewage Sludge with Regard to Cropping Systems and Pollution Potential,  
W85-01291 1803 5B

**HIGGINS, J. D.**  
Mechanics of Mudflows,  
W85-01816 1804 8B

**HIGLER, L. W. G.**  
Ecological Types of Running Water Based on Stream Hydraulics in the Netherlands,  
W85-02504 1805 2E

**HIGMAN, D.**  
Seasonal and Yearly Variation in Meteorological Parameters at the Chesapeake Bay Center for Environmental Studies,  
W85-05354 1810 2A

**HIGNETT, C. L.**  
Water Balance Under Wheat Modelled with Limited Soil Data,  
W85-06680 1812 2G

**HIGUCHI, M.**  
Numerical Simulations of Soil-Water Flow During Wetting in a Nonhomogeneous Soil,  
W85-03757 1807 2G

**HLJNEN, W. A. M.**  
Determination of the Concentration of Maltose- and Starch-Like Compounds in Drinking Water by Growth Measurements with a Well-Defined Strain of a Flavobacterium Species,  
W85-06139 1811 5A

**HIKASA, S.**  
Studies on Performance of Desalination Plant by Reverse Osmosis System - II; Effects of Inhibition of Bacterial Growth with NaHSO<sub>3</sub> on Performance of Plant (in Japanese),  
W85-02838 1806 3A

**HILBERT, M. S.**  
Organochlorine Pesticide Residues in Paddy Fish in Malaysia and the Associated Health Risk to Farmers,  
W85-01438 1803 5B

**HILDEN, M.**  
Effects of Environmental Changes on the Fisheries and Fish Stocks in the Archipelago Sea and the Finnish Part of the Gulf of Bothnia,  
W85-02388 1805 5C

**HILDYARD, N.**  
Myth of the Benign Superdam,  
W85-06632 1812 6G

Politics of Damming,  
W85-06633 1812 6G

**HILEMAN, B.**  
Acid Rain Perspectives: A Tale of Two Countries,  
W85-03055 1806 5G

**HILGE, V.**  
Water Quality and Stocking Density as Stressors of Channel Catfish (*Ictalurus punctatus* Raf.),  
W85-00234 1801 3F

**HILL, A. R.**  
Nitrate Distribution in the Ground Water of the Alliston Region of Ontario, Canada,  
W85-00347 1801 5B

Nitrate Transformations in Southern Ontario Stream Sediments,  
W85-03139 1806 2E

**HILL, B. H.**  
Breakdown of Macrophytes in a Reservoir Wetland,  
W85-05607 1810 2H

**HILL, G.**  
Limnology of the Kern River (Southern California),  
W85-03124 1806 2H

Preliminary Characterization of the Tropical Lakes of the Central Amazon by Comparison with Polar and Temperate Systems,  
W85-00869 1802 2H

**HILL, G. A.**  
Seasonal Study of a Freshwater Lake and Migratory Waterfowl for *Campylobacter Jejuni*,  
W85-01639 1804 5B

**HILL, G. F.**  
Textile Dyehouse Wastewater Treatment: A Case History,  
W85-05240 1810 5D

**HILL, I.**  
River Mixing - A State-of-the-Art Report,  
W85-04050 1808 5B

**HILL, K. R.**  
Correlation of Total and 'Angler-Acceptable' Crappie Standing Stocks with Lake Basin Slopes and Silting Indexes,  
W85-03832 1808 2H

**HILL, L. G.**  
Depth Distribution of Striped Bass and Other Fish in Lake Texoma (Oklahoma-Texas) During Summer Stratification,  
W85-06408 1812 2H

**HILL, R.**  
How to Buy a Water Treatment Plant,  
W85-02765 1806 5F

Total Capability in Water Treatment,  
W85-00759 1802 5F

**HILL, R. W.**  
Comparison of Equations Used for Estimating Agricultural Crop Evapotranspiration with Field Research,  
W85-05131 1810 2D

**HILL, T.**  
Evaluation of Wastes from the East St. Louis Water Treatment Plant and Their Impact on the Mississippi River,  
W85-06343 1812 5C

**HILLAIRE-MARCEL, C.**  
Isotopic Analyses (18O, 13C, 14C) of Two Meromictic Lakes in the Canadian Arctic Archipelago,  
W85-01329 1803 2H

**HILLAIRET, P.**  
Twenty Years After: An Experiment in Tidal Power (Vingt ans apres La Rance, une Experience Maremotrice),  
W85-05544 1810 8A

**HILLBRICHT-ILKOWSKA, A.**  
Biotic Structure and Processes in the Lake System of R. Jorka Watershed (Masurian Lakeland, Poland), I. Land Impact, Loading and Dynamics of Nutrients,  
W85-00902 1802 2H

Biotic Structure and Processes in the Lake System of R. Jorka Watershed (Masurian Lake-

land, Poland). XII. Productivity, Structure and Dynamics of Lake Biota (A Synthesis of Research),  
W85-00904 1802 2H

External and Internal Loading and Retention of Phosphorus in the R. Jorka Lakes (Masurian Lakeland, Poland) vs Their Trophic Status,  
W85-04556 1809 2H

**HILLEBRAND, M. T. J.**  
River Elbe: Processes Affecting the Behaviour of Metals and Organochlorines During Estuarine Mixing,  
W85-01836 1804 5B

River Weser Processes Affecting the Behaviour of Metals and Organochlorines during Estuarine Mixing,  
W85-01837 1804 5B

**HILMOE, D. J.**  
Slow Sand and Direct In-Line Filtration of a Surface Water,  
W85-04406 1808 5F

**HILSENHOFF, W. L.**  
Using Biotic Index to Evaluate Water Quality in Streams,  
W85-06339 1812 5A

**HILTON, J.**  
Airborne Remote Sensing for Freshwater and Estuarine Monitoring,  
W85-03538 1807 7B

Contemporary Lake Transport Processes Determined from Sedimentary Records of Copper Mining Activity,  
W85-06150 1811 2J

**HIMBERG, M.**  
Fish Deformities and Pollution in Some Swedish Waters,  
W85-05466 1810 5C

**HIMEBAUGH, R. R.**  
Doing a Job on Data,  
W85-04651 1809 7C

**HINCH, L. W.**  
Jamuna River 230 kV Crossing - Bangladesh, I. Design of Foundations,  
W85-04470 1809 8A

**HINDIN, E.**  
Occurrence of Organic Compounds in Water and Stream Sediments Due to the Mt. St. Helens Eruption,  
W85-00061 1801 5B

**HINDS, M. W.**  
Waterborne Outbreak of Hepatitis A in Meade County, Kentucky,  
W85-04658 1809 5C

**HINE, P. T.**  
Gel Permeation Chromatography of Humic Acid; Problems Associated with Sephadex Gel,  
W85-02920 1806 5A

**HINMAN, C. W.**  
New Crops for Arid Lands,  
W85-02548 1805 3F

**HINNEBUSCH, B. J.**  
Effect of Noncoliforms on Coliform Detection in Potable Groundwater: Improved Recovery with an Anaerobic Membrane Filter Technique,  
W85-02140 1804 5F

**HINRICHIS, R. A.**  
Rain Chemistry under the Plume from an Oil-Fired Power Plant - A Case Study,  
W85-01086 1802 5B

**HIPPE, L.**  
Guidelines for Efficiency Scaling Process of Hydraulic Turbomachines with Different Technical Roughnesses of Flow Passages,  
W85-00194 1801 8C

**AUTHOR INDEX**

HOEMIG, H. E.

<b>HIPPS, L. E.</b> Assessing Solar Energy and Water Use Efficiencies in Winter Wheat: A Case Study, W85-01058	1802 3F	<b>HITZHUSEN, F.</b> Private and Social Cost - Benefit Perspectives and a Case Application on Reservoir Sedimentation Management, W85-04447	1809 4D	<b>HOCKING, R. J.</b> Effects of Sodium and Potassium Chlorides on the Growth and Accumulation of Mineral Ions by <i>Cyperus involucratus</i> Rottb, W85-06803	1812 5C
<b>HIRA, G. S.</b> Effect of Sodium and Bicarbonate Irrigation Waters on Sodium Accumulation and on Maize and Wheat Yields in Northern India, W85-05921	1811 2I	<b>HJALMARSON, H. W.</b> Flash Flood in Tanque Verde Creek, Tucson, Arizona, W85-03793	1808 2E	<b>HOUCUTT, C. H.</b> Effects of Salinity on Preferred and Lethal Temperatures of the Blackchin Tilapia, <i>Sarotherodon melanotheron</i> , W85-03143	1806 2L
<b>HIRAISHI, A.</b> Relationships of Total Coliform, Fecal Coliform, and Organic Pollution Levels in the Tamagawa River, W85-02717	1806 5C	<b>HJELMFELT, A. T. JR.</b> Convolution and the Kinematic Wave Equations, W85-04279	1808 2E	<b>HODGE, G. D.</b> Prodelta Environment of a Fjord: Suspended Particle Dynamics, W85-06698	1812 2H
<b>HIRAOKA, M.</b> Suppression of Actinomycete Scum Production - A Case Study at Senboku Wastewater Treatment Plant, Japan, W85-03641	1807 5D	<b>HJELMFELT, T.</b> Soil Moisture Responses to Cropping and Tillage on Western Iowa Loess Soils, W85-03391	1807 2G	<b>HODGE, S. M.</b> Nisqually Glacier, Mount Rainier, Washington, 1857-1979: A Summary of the Long-Term Observations and a Comprehensive Bibliography, W85-00039	1801 2C
<b>HIRAOKA, Y.</b> Changes in the Sulfide Content of Bottom Muds in Going from River to Sea, W85-07149	1812 5B	<b>HO, G. E.</b> Iron Removal From TiO <sub>2</sub> -Plant Acidic Wastewater, W85-02278	1805 5D	<b>HODGE, V.</b> U.S. Mussel Watch: 1977-1978 Results on Trace Metals and Radionuclides, W85-00669	1802 5B
Tentative Assessment of Water Pollution by the Medaka Egg Stationing Method: Aerial Application of Fenitrothion Emulsion, W85-02726	1806 5A	<b>HO</b> , G. E. Removal of Nitrogen from Wastewater by Soil Percolation with Alternate Flooding and Drying, W85-07107	1812 5E	<b>HODGSON, C. W.</b> Masing Dam in Kenya, W85-04471	1809 8A
<b>HIRATA, T.</b> Internal Seiche and Waves in Lake Chuzenji (Japan), W85-02605	1805 2H	<b>HO, J.</b> Ionic Strength Correction for Extent of Ammonia Ionization in Freshwater, W85-00895	1802 2K	<b>HODGSON, G. W.</b> Fate of Organic Compounds in Mountain Streams in the Marmot Basin: A Process Reactor Model, W85-00406	1801 2K
<b>HIRN, J.</b> Occurrence of Faecal Coliforms, Faecal Streptococci and Salmonella in the Waste Water of Three Abattoirs in Finland 1980-1983, W85-03681	1807 5A	<b>HO, K. C.</b> Heavy Metals in <i>Ulva lactuca</i> Collected within Tolo Harbour, An Almost Landlocked Sea, W85-01762	1804 5B	<b>HODGSON, L. M.</b> Prediction of Secchi Disc Depths in Florida Lakes: Impact of Algal Biomass and Organic Color, W85-02477	1805 2H
<b>HIRSCH, M. S.</b> Disposal of Household Wastewater in Soils of High Stone Content (1981-1983), W85-01815	1804 5D	<b>HOAG, R. S.</b> Nitrogen Cycle and Algal Growth Modeling, W85-03335	1807 5B	Relations between Color and Some Limnological Characteristics of Florida Lakes, W85-01372	1803 2H
<b>HIRSCH, R. M.</b> Methods of Fitting a Straight Line to Data: Examples in Water Resources, W85-03136	1806 6A	<b>HOARE, R. A.</b> Nitrogen and Phosphorus in Rotorua Urban Streams, W85-06796	1812 5B	<b>HODNETT, M. G.</b> Crop Evaporation and Surface Conductance Calculated Using Soil Moisture Data from Central India, W85-01063	1802 2D
Nonparametric Trend Test for Seasonal Data with Serial Dependence, W85-01347	1803 2A	<b>NITROGEN AND PHOSPHORUS IN THE NGONGOTCHA STREAM,</b> W85-01635	1804 5B	<b>HODSON, P. V.</b> Use of Fish Cell Cultures as an Indication of Contaminant Toxicity to Fish, W85-06440	1812 5A
<b>HIRSH, R. M.</b> Effect of Censoring Trace-Level Water-Quality Data on Trend-Detection Capability, W85-01125	1803 7C	<b>HOBBS, B. F.</b> Water Supply for Power in Texas-Gulf Region, W85-03059	1806 3E	<b>HODSON, R. E.</b> Annual Cycle of Bacterial Secondary Production in Five Aquatic Habitats of the Okefenokee Swamp Ecosystem, W85-05112	1810 2H
<b>HISATOMI, S.</b> High-BOD Loading Treatment Using Large-Scale Deep Aeration Tanks, W85-02972	1806 5D	<b>HORDEN, B.</b> Osmoregulatory and Hematological Responses of Rainbow Trout ( <i>Salmo gairdneri</i> ) to Extended Environmental Acidification, W85-03604	1807 5C	Relative Contributions of Bacteria and Fungi to Rates of Degradation of Lignocellulosic Detritus in Salt-Marsh Sediments, W85-02138	1804 2L
<b>HITCHMAN, S. P.</b> Controls on Contaminant Migration at the Villa Farm Lagoons, W85-03770	1808 5D	<b>HOBORN, R.</b> Particulate Load of the Red River, St. Ives Bay: Its Geochemical Composition and the Effect of its Discharge Plume on the Behaviour of a Resident Wild Dolphin, W85-06880	1812 5C	<b>HOEHN, E.</b> Advection-Dispersion Interpretation of Tracer Observations in an Aquifer, W85-00326	1801 4B
<b>HITE, J. E.</b> South Fork Tilla toba Creek Drop Structure, Mississippi: Hydraulic Model Investigation, W85-06923	1812 8B	<b>HOCHMAN, E.</b> Solar Energy and Hydroelectric Power Generation in the Dead Sea: A Dynamic Analysis, W85-03548	1807 6B	<b>HOEKSEMA, R. J.</b> Analysis of the Spatial Structure of Properties of Selected Aquifers, W85-06510	1812 2F
<b>HITES, R. A.</b> Environmental Impact of Two, Adjacent, Hazardous Waste Disposal Sites in the Niagara River Watershed, W85-04718	1809 5C	<b>HOCHREITER, J. J.</b> Distribution of Volatile Organic Compounds in a New Jersey Coastal Plain Aquifer System, W85-06825	1812 5B	Application of the Geostatistical Approach to the Inverse Problem in Two-Dimensional Groundwater Modeling, W85-02169	1804 2F
Polychlorinated Dibenzo-p-dioxins and Dibenzofurans in Sediments from Siskiwit Lake, Isle Royale, W85-03025	1806 5B	<b>HOCKENBURY, M. R.</b> Munitions Manufacturing Wastewater Treatment: A Grass-Roots Facility Case History, W85-05248	1810 5D	<b>HOEMIG, H. E.</b> Basic Considerations Influencing the Choice of Materials for Thermal Seawater Desalination Plants, W85-01224	1803 3A

## AUTHOR INDEX

**HOEPPEL, R. E.**

**HOEPPEL, R. E.**  
Determination of Chemical Threshold Concentrations Using 2,4-D to Control Selected Aquatic Macrophytes: A Pilot Study to Evaluate a Laboratory System,  
W85-06917 1812 4A

**HOFF, J. C.**  
Waterborne Outbreak Control: Which Disinfectant,  
W85-01198 1803 5F

**HOFFMAN, E. J.**  
Total Hydrocarbons, Polycyclic Aromatic Hydrocarbons and Synthetic Organic Compounds in the Hard Shell Clam, Mercenaria mercenaria, Purchased at Commercial Seafood Stores,  
W85-01352 1803 5C

Urban Runoff as a Source of Polycyclic Aromatic Hydrocarbons to Coastal Waters,  
W85-02108 1804 5B

**HOFFMAN, G. J.**  
Management Alternatives: Crop, Water, and Soil,  
W85-03656 1807 3F

Minimizing Salt in Drain Water by Irrigation Management - Arizona Field Studies with Citrus,  
W85-03481 1807 3F

Minimizing Salt in Drain Water by Irrigation Management - Leaching Studies with Alfalfa,  
W85-03483 1807 3F

Salinization of Organic Soils in the Sacramento-San Joaquin Delta of California,  
W85-05927 1811 3F

Salt Tolerance of Corn in the Sacramento-San Joaquin Delta of California,  
W85-05925 1811 3C

**HOFFMAN, J. L.**  
Numerical Model Study of Ground-Water Contamination from Price's Landfill, New Jersey - I. Data Base and Flow Simulation,  
W85-00353 1801 5B

Numerical Model Study of Ground-Water Contamination from Price's Landfill, New Jersey - II. Sensitivity Analysis and Contaminant Plume Simulation,  
W85-00354 1801 4B

**HOFFMAN, R. W.**  
Impact of Combined Sewer Overflows from San Francisco on the Western Shore of Central San Francisco Bay,  
W85-04292 1808 5C

**HOFFMANN, A.**  
Improved Operational Control of Sedimentation Facilities Through the Use of Fiberoptic Sensors (Verbesserte Betriebskontrolle von Sedimentationsanlagen durch Nutzung faseroptischer Sensoren),  
W85-01882 1804 5D

**HOFFMANN, D. S.**  
Who Owns the Great Lakes. Posturing for Control of an International Resource,  
W85-04177 1808 6E

**HOFFMANN, H.**  
Hyperfiltration of Surfactants Containing Solutions From the Plating Industry,  
W85-01223 1803 5D

**HOFFMANN, I.**  
Results and Experience of the Greiz Water Supply District in the Field of Rational Water Use (Ergebnisse und Erfahrungen des Versorgungsbereichs Greiz bei der rationellen Wasserverwendung),  
W85-01880 1804 3D

**HOFFMANN, M. R.**  
Transformation and Fate of Organic Esters in Layered-Flow Systems: The Role of Trace Metal Catalysis,  
W85-02805 1806 5B

**HOFMANN, H.**  
Weedage of the Hochrhein by Crowfoot (*Ranunculus fluitans*) (Verkrautung des Hochrheins Durch 'Flutenden Hahnenfuss'),  
W85-03440 1807 5C

**HOGARTH, W. L.**  
Flux and Water Content Relation at the Soil Surface,  
W85-06538 1812 2G

Similarity and First-Integral Solutions for Air and Water Diffusion in Soils and Comparison with Optimal Results,  
W85-04343 1808 2G

**HOGEBOOM, W. M.**  
Method for the Enumeration of Male-Specific Bacteriophages in Sewage,  
W85-01149 1803 5A

**HOGG, E. A.**  
Inventory and Assessment of Aquatic Plant Management Methodologies,  
W85-06898 1812 4A

**HOGGAN, D. H.**  
Inadvertent Income Redistribution Effects of State Water Development Financing,  
W85-00367 1801 6E

**HOGLUND, L. B.**  
Reduction by a Surfactant of Olfactory Mediated Attraction Between Juveniles of Arctic Char, *Salvelinus alpinus* (L.),  
W85-06384 1812 5C

**HOIGNE, J.**  
Improved Ammonia Oxidation by Ozone in the Presence of Bromide Ion During Water Treatment,  
W85-02430 1805 5A

Kinetics and Products of the Reactions of Ozone with Various Forms of Chlorine and Bromine in Water,  
W85-05828 1810 5F

Singlet Oxygen in Surface Waters - Part I: Furan Alcohol as a Trapping Agent,  
W85-01964 1804 2K

Singlet Oxygen in Surface Waters - Part II: Quantum Yields of Its Production by Some Natural Humic Materials as a Function of Wavelength,  
W85-01965 1804 2K

**HOKE, E.**  
Electron-Microanalytical Investigations of the Interfacial Corrosion in Concrete,  
W85-01129 1803 8F

**HOKE, S. H.**  
Chromatographic Trace Analysis of Guanidine, Substituted Guanidines and S-Triazines in Water,  
W85-02303 1805 5A

Microbial Degradation of 2,4,6-Trichloroaniline in Aquatic Samples and Laboratory Enrichment Cultures,  
W85-02120 1804 5B

**HOLBURT, M. B.**  
1983 High Flows on the Colorado River and Their Aftermath,  
W85-03704 1807 4A

**HOLCOMB, L. C.**  
Liners to Protect Water Resources,  
W85-03715 1807 5G

**HOLCOMBE, G. W.**  
Acute Toxicity of Selected Substituted Phenols, Benzenes and Benzoic Acid Esters to Fathead Minnows *Pimephales promelas*,  
W85-02751 1806 5C

**HOLDEN, T. E.**  
Oxidation of Cyanides in Industrial Wastewaters by Ozone,  
W85-04881 1809 5D

**HOLDREN, G. C.**  
Removal of Organics from Water in an Aeration Basin: A Mathematical Model,  
W85-06229 1812 5F

**HOLDREN, M. W.**  
Peroxyacetyl Nitrate Solubility and Decomposition Rate in Acidic Water,  
W85-03594 1807 5B

**HOLIAN, J. O.**  
Analysis of Precipitation Collected on a Sequential Basis,  
W85-04505 1809 5B

**HOLLAN, E.**  
Current Measurements in Lake Constance (Stromungen im Bodensee),  
W85-03438 1807 2H

Physical Model Study of Lake Constance,  
W85-04072 1808 2H

Steady Winter Circulations in Lakes Constance and Kinneret Driven by Wind and Main Tributaries,  
W85-05727 1810 2H

**HOLLAND, J. W.**  
Biological Health Risks Associated with the Composting of Wastewater Treatment Plant Sludge,  
W85-04291 1808 5E

**HOLLAND, L. E.**  
Relationship of Young-of-the-Year Northern Pike to Aquatic Vegetation Types in Backwaters of the Upper Mississippi River,  
W85-03834 1808 8I

Water Quality and the Rotifer Populations in the Atchafalaya River Basin, Louisiana,  
W85-00399 1801 5C

**HOLLAND, M. T.**  
Aquifer Classification for the UIC Program: Prototype Studies in New Mexico,  
W85-03150 1806 2F

**HOILE, R. L.**  
Precipitation Trends and Water Consumption Related to Population in the Southwestern United States, 1930-83,  
W85-07067 1812 2B

Relative Effects of U.S. Population Shifts (1930-80) on Potential Heating, Cooling and Water Demand,  
W85-01153 1803 2B

**HOLLERMAN, W. D.**  
Effect of Treatment with a Commercial Bacterial Suspension on Water Quality in Channel Catfish Ponds,  
W85-01922 1804 5F

**HOLLETT, K. J.**  
Geohydrology and Water Resources of the Papago Farms-Great Plain Area, Arizona, Papago Indian Reservation Arizona, and the Upper Rio Sonoyta, Sonora, Mexico,  
W85-03920 1808 2F

**HOLLINGER, D. Y.**  
Temperature and Evapotranspiration Gradients of the White Mountains, New Hampshire, U.S.A.,  
W85-00111 1801 2D

## AUTHOR INDEX

HOPE, B. B.

**HOLLORAN, M.**  
Model for Instream Regulation of Radioisotopes and Heavy Metals in Riverine Waters Subjected to a Uranium Mill Discharge, W85-02068 1804 5B

**HOLLORAN, M. F.**  
Sensitivity Analysis of Reservoir Oxygen Model, W85-04585 1809 2H

**HOLLY, F. M.**  
Computer-Based Prediction of Alluvial Riverbed Changes, W85-06117 1811 2J

**HOLLY, F. M. JR.**  
Dispersion Simulation in Two-Dimensional Tidal Flow, W85-01558 1803 5B

**HOLM, E.**  
Radioecological Studies of Activation Products Released from a Nuclear Power Plant into the Marine Environment, W85-04865 1809 5B

**HOLMAN, L.**  
1981 CCOPE PROBE Mesonet Calibration and Maintenance Measures, W85-04928 1809 7B

**HOLMBERG, A.**  
Application of Models in Developing Control Strategies for Activated Sludge Waste Water Treatment Plants, W85-01431 1803 5D

**HOLMBOM, B.**  
Method for Total Organic Chlorine Determination in Bleach Plant Recipient Waters, W85-01962 1804 5A

**HOLMES, J. W.**  
Measuring Evapotranspiration by Hydrological Methods, W85-06667 1812 2D

**HOLMES, P. G.**  
Costs and Benefits of Estuarine and Coastal Pollution Control, W85-01394 1803 6B

**HOLMES, R.**  
Comparison of Different Methods of Estimating Infiltration at a Landfill Site in South Essex with Implications for Leachate Management and Control, W85-03767 1808 5G

**HOLMES, R. W.**  
Preliminary Observations on the Effects of Flooding and Desiccation upon the Net Photosynthetic Rates of High Intertidal Estuarine Sediments, W85-01594 1803 2L

**HOLMES, S. B.**  
Distribution of Fenitrothion Residues in Brook Trout (*Salvelinus fontinalis*) and Lake Trout (*Salvelinus namaycush*) Tissues Following Aerial Applications to Lac Ste-Anne, Quebec, W85-02784 1806 5C

Fate of Chemical Insecticides in Aquatic Environments, Forest Spraying in Canada, W85-06770 1812 5B

**HOLMES, W. F.**  
Three-Dimensional Digital-Computer Model of the Principal Ground-Water Reservoir of the Sevier Desert, Utah, W85-01925 1804 7C

**HOLMGREN, S.**  
Phytoplankton in a Polluted Subarctic Lake Before and After Nutrient Reduction, W85-04490 1809 5C

**HOLMGREN, S. K.**  
Experimental Lake Fertilization in the Kuokkel Area, Northern Sweden. Phytoplankton Biomass and Algal Composition in Natural and Fertilized Subarctic Lakes, W85-04910 1809 2H

**HOLSTINE, L. L.**  
Setting Agricultural Pollution Control Priorities, W85-05949 1811 5G

**HOLT, J. K.**  
Use of a Simple Water Column Sampler to Monitor Chemical and Biological Conditions in Shallow Waters, W85-01239 1803 7B

**HOLT, S.**  
Investigation into the Effect of Different Pumping Regimes on Drawdown in Large Diameter Wells, W85-02826 1806 4B

**HOLTON, R. L.**  
Trace Metals in the Columbia River Estuary Following the 18 May 1980 Eruption of Mount St. Helens, W85-05056 1810 5B

**HOLTSCHLAG, D. J.**  
Estimating Generalized Flood Skew Coefficients for Michigan, W85-00849 1802 2E

**HOLTZ, A. C. T.**  
Future of Hydropower in Brazil, W85-04779 1809 6B

**HOLTZMAN, R. B.**  
Hydrogeologic and Geochemical Studies of Selected Natural Radioisotopes and Barium in Groundwater in Illinois, W85-05122 1810 2K

**HOLWAY, J. M.**  
Nitrate Contamination: Public Awareness, W85-04828 1809 5F

**HOLZAPFEL, E. A.**  
Border Irrigation Model Selection, W85-06092 1811 3F

Comparison and Selection of Furrow Irrigation Models, W85-03484 1807 3F

**HOLZHAUSEN, G. R.**  
Application of Telemetry to Large-Scale Horizontal Anisotropic Permeability Determinations by Surface Tiltmeter Survey, W85-03184 1806 7B

**HOLZNECHT, S. M.**  
Biogeochemical Fate and Toxicity of Mercury in Controlled Experimental Ecosystems, W85-00651 1802 5B

**HOLZWARTH, G.**  
Fate of Chlorine and Chloramines in Cooling Towers: Henry's Law Constants for Flashoff, W85-02915 1806 5B

**HOM, T.**  
Simultaneous Exposure of English Sole (*Parophrys vetulus*) to Sediment-Associated Xenobiotics: Part I - Uptake and Disposition of 14C-Polychlorinated Biphenyls and 3H-Benzo(a)Pyrene, W85-04870 1809 5C

**HOMONNAY, A.**  
Water Quality Standards as a Basis of an Economic Incentive System, W85-01390 1803 6F

**HONABACH, D. R.**  
Tort Recovery of Acid Rain Damages in the United States - Observations on Plaintiff's Prima Facie Case, W85-01667 1804 6E

**HONDA, A.**  
Application of a Combined Chemical-Biological Treatment to High-Strength Wastewater, W85-00172 1801 5D

**HONEYCUTT, R. C.**  
Mathematical Modeling Application to Environmental Risk Assessments, W85-06769 1812 5B

**HONG, S.**  
Biological Phosphorus and Nitrogen Removal Via the A/O Process: Recent Experience in The United States and United Kingdom, W85-03644 1807 5D

**HONGVE, D.**  
Efficiency of Liming in Acid, Humus-Influenced Lakes, W85-04533 1809 5G

**HONISCH, K.**  
Design and Construction of the Agus IV Power Cavern, Part Three: Control of Behavior, W85-02683 1805 8A

**HONJO, Y.**  
Applicability of the Stable Isotope Method using  $^{13}\text{C}$  and  $^{15}\text{N}$  Simultaneously to the Estimation of Carbon and Nitrogen Assimilation in a Eutrophic, Freshwater Lake, Lake Nakamura, Japan, W85-06445 1812 2H

Uptake of Carbon and Inorganic Nitrogen in a Eutrophic Lake, Lake Nakamura, Japan, from Spring Through Summer, W85-06400 1812 2H

**HONKANEN, K.**  
Wastewater Characteristics, W85-07001 1812 5D

**HONSAKER, J. L.**  
Remote Semiautomatic Instrumentation for Intermittent Streamflow Measurement and Suspended Sediment Sampling, W85-05461 1810 2E

**HONSTEIN, R.**  
Phosphorus Cycling in Ionically Polluted Onondaga Lake, New York, W85-05690 1810 5B

**HOOK, D. D.**  
Growth and Nutrient Status of Loblolly Pine Seedlings in Relation to Flooding and Phosphorus, W85-03968 1808 2I

Waterlogging Tolerance of Lowland Tree Species of the South, W85-02111 1804 2I

**HOOK, J. E.**  
Corn Irrigation Scheduled by Tensiometer and the Lambert Model in the Humid Southeast, W85-03358 1807 2I

**HOOKE, R. L.B.**  
Subglacial Hydrology and Sediment Transport at Bondhusbrean, Southwest Norway, W85-05733 1810 2C

**HOOPER, A. G.**  
Effects of Constructing a Barrage Across the Tawe Estuary, W85-00567 1802 6G

**HOOPES, J. A.**  
Buoyant Contaminant Plumes in Groundwater, W85-02660 1805 5B

**HOOVER, J. R.**  
Effect of Soil Air Entrapment on Erosion, W85-03369 1807 4D

**HOPE, B. B.**  
Measurement of Concrete Permeability, W85-01714 1804 8F

## AUTHOR INDEX

**HOPKE, P. K.**

**HOPKE, P. K.**  
Comparison of the Mutagenicity of Sewage Sludges, W85-03662 1807 5E

**HOPKINS, J. C.**  
Channel-Fill Deposits Formed by Aggradation in Deeply Scoured, Superimposed Distributaries of the Lower Kootenai Formation (Cretaceous), W85-05617 1810 2J

**HOPKINS, K.**  
Case Histories: Pretreatment of Poultry Processing Wastewater, W85-05408 1810 5D

**HOPKINS, R. S.**  
Waterborne Disease in Colorado: Three Years' Surveillance and 18 Outbreaks, W85-05521 1810 5F

**HOPKINSON, C. S.**  
Above- and Belowground Emergent Macrophyte Production and Turnover in a Coastal Marsh Ecosystem, Georgia, W85-02791 1806 2L

Static and Dynamic Aspects of Nitrogen Cycling in the Salt Marsh Graminoid *Spartina alterniflora*, W85-00257 1801 2L

**HOPMANS, J. W.**  
Effect of Temperature-Dependent Hydraulic Properties on Soil Water Movement, W85-05185 1810 2G

**HOPMANS, P.**  
Irrigation of Monterey Pine with Wastewater: Effect on Soil Chemistry and Groundwater Composition, W85-03855 1808 5D

**HOPNER, T.**  
Pentachlorophenol and Tetrachlorophenols in Wadden Sediment and Clams *Mya arenaria* of the Jadebusen After a 14-Year Period of Wastewater Discharge Containing Pentachlorophenol, W85-05028 1810 5C

**HOPPE, H.-G.**  
Degradation of Macromolecular Organic Compounds in a Tropical Lagoon (Ciénaga Grande, Colombia) and its Ecological Significance, W85-04907 1809 2L

**HORAK, W. F.**  
Hydrology of the Wibaux-Beach Lignite Deposit Area, Eastern Montana and Western North Dakota, W85-03945 1808 2K

**HORAN, N. J.**  
Versatile Computer-Controlled Fermentor for the Simulation of Wastewater Treatment Systems, W85-06837 1812 5D

**HORDILJK, C. A.**  
Comparison of Bacterial Sulfate Reduction and Methanogenesis in the Anaerobic Sediments of a Stratified Lake-Ecosystem, W85-04703 1809 2H

**HORDILJK, K. A.**  
Carbon Flow Across the Sediment-Water Interface in Lake Vechten, The Netherlands, W85-02066 1804 2H

Kinetic Studies of Bacterial Sulfate Reduction in Freshwater Sediments by High-Pressure Liquid Chromatography and Microdistillation, W85-05053 1810 2H

**HORI, H.**  
Biological Wastewater Treatment in a Fluidized Bed Reactor, W85-07110 1812 5D

**HORIE, S.**  
Relationships of Total Coliform, Fecal Coliform, and Organic Pollution Levels in the Tamagawa River, W85-02717 1806 5C

**HORIGUCHI, K.**  
Role of Heat and Water Transport in Frost Heaving of Fine-Grained Porous Media Under Negligible Overburden Pressure, W85-04167 1808 2C

**HORKAI, A.**  
Wastewater Purification as Related to the Study of a River System (Abwasserreinigung in Verbindung mit der Untersuchung eines Flusssystems), W85-01885 1804 5D

**HORN, H.**  
Interactions between Light Situation, Depth of Mixing and Phytoplankton Growth during the Spring Period of Full Circulation, W85-02568 1805 2H

**HORNBECK, J. W.**  
Influence of Storm Characteristics on Sulfate in Precipitation, W85-04010 1808 2K

Potential for Acidification of Six Remote Ponds in the White Mountains of New Hampshire, W85-01834 1804 5B

**HORNCERBER, G. M.**  
Identification of Photosynthesis-Light Models for Aquatic Systems; I. Theory and Simulations, W85-00268 1801 2H

Identification of Photosynthesis-Light Models for Aquatic Systems; II. Application to a Macrophyte Dominated Stream, W85-00269 1801 2H

Modeling Algal Behaviour in the River Thames, W85-01720 1804 5G

Modeling the Effects of Acid Deposition: Assessment of a Lumped Parameter Model of Soil Water and Streamwater Chemistry, W85-04792 1809 5C

Statistical Exploration of the Relationships of Soil Moisture Characteristics to the Physical Properties of Soils, W85-01341 1803 2G

**HORNE, R. N.**  
Detection of Linear Boundaries by Drawdown Tests: A Semilog Type Curve Matching Approach, W85-05793 1810 2F

**HORNER, R. R.**  
Guide for Assessing Water-Quality Impacts of Highway Operation and Maintenance, W85-06068 1811 5C

**HORNING, W. B. II**  
Reduction in Toxicity of Organic Priority Pollutants by Pilot-Scale Conventional Wastewater Treatment Process, W85-02201 1805 5D

**HORNING, H.**  
Mercury Pollution in Sediments, Benthic Organisms and Inshore Fishes of Haifa Bay, Israel, W85-04863 1809 5B

PCBs, DDTs and Other Chlorinated Hydrocarbons in Marine Organisms from the Mediterranean Coast of Israel, W85-04894 1809 5B

**HORNUNG, M.**  
Factors Influencing Bulk Precipitation Chemistry at an Upland Site in Mid-Wales, W85-00509 1802 2K

**HORNUNG, U.**  
Evaluation of the Polubarinova-Kochina Formula for the Dam Problem, W85-05803 1810 2F

**HORRELL, G. A.**  
Spatial Variability of Low Flows across a Portion of the Central Southern Alps, New Zealand, W85-02556 1805 2E

**HORRILL, A. D.**  
Radionuclide Levels and Distribution in Grazed Saltmarsh in West Cumbria, W85-06814 1812 5B

**HORSEMAN, L. O.**  
Effects of Organic and Inorganic Chemical Contaminants on Fertilization, Hatching Success, and Prolarval Survival of Striped Bass, W85-03225 1807 5C

**HORSLEY, E. E.**  
Land Application of Municipal Wastewater Treatment Plant Sludge, Indianapolis, Indiana, W85-05390 1810 5E

**HORSTMANN, B.**  
Influence of Phosphonates Upon Phosphate Elimination. I. Communication: 1-Hydroxyethane-1,1-Diphosphonic Acid (HEDP) (Der Einfluss von Phosphonaten auf die Phosphatelimination. I. Teil: 1-Hydroxyethan-1,1-diphosphonsäure (HEDP)), W85-03590 1807 5D

**HORSTMANN, H. L.**  
Animal Substrate Relationships and Productivity of Invertebrate Macrofauna of Mississippi Sound and Adjacent Coastal Areas: A Bibliography with Abstracts, W85-06911 1812 2L

**HORSWILL, P.**  
Empingham Reservoir - Seepage Control Measures, W85-06175 1812 8E

**HORTLE, K. G.**  
Macroinvertebrate Assemblages in Channelized and Unchannelized Sections of the Bunyip River, Victoria, W85-02788 1802 6G

**HORVATH, J.**  
Synthetic Design Storm and its Relation to Intensity-Duration Frequency Curves, W85-01679 1804 2B

**HORVATH, L.**  
Composition and Acidity of Precipitation in Hungary, W85-03291 1807 5B

**HORWOOD-BROWN, W. C.**  
Program HVRLV1 - Interactive Determination of Horizontal Permeabilities within Uniform Soils from Field Tests Using Hvorslev's Formulas, W85-00312 1801 2G

**HOSE, J. E.**  
Effects of Dechlorinated Seawater on Fish Behavior, W85-04862 1809 5D

Histologic and Skeletal Abnormalities in Benzo(a)pyrene-Treated Rainbow Trout Alevins, W85-03223 1807 5C

Oxygen Consumption Rates of Grunion (*Leuresthes tenuis*) Embryos Exposed to the Petroleum Hydrocarbon, Benzo(a)pyrene, W85-04341 1808 5C

**HOSHIMA, A.**  
Sedimentation Rates and Heavy Metal Pollution of Sediments in the Seto Inland Sea; Part 2. Hiroshima Bay, W85-01497 1803 5C

## AUTHOR INDEX

HOYER, O.

Sedimentation Rates and Heavy Metal Pollution of Sediments in the Seto Inland Sea, Part 3. Hiuchi-Nada, W85-05687	1810 5B		HOWELL, F. G. Study of Cutoff Bendways on the Tombigbee River, W85-06928	1812 6G
HOSKING, J. R. M. Appraisal of the Regional Flood Frequency Procedure in the UK Flood Studies Report, W85-05905	1811 2E		HOWELL, G. Problems Associated with Sulphate Determination in Colored, Humic Waters in Kejimkujik National Park, Nova Scotia (Canada), W85-05661	1810 5A
Modeling Persistence in Hydrological Time Series Using Fractional Differencing, W85-03996	1808 2A		HOWELL, R. Acute Toxicity of Heavy Metals to Two Species of Marine Nematodes, W85-01351	1803 5C
HOSOYA, K. Influences of Human Excrement on Water Quality in the Minami-Asakawa River, W85-00934	1802 5B		Effect of Treatment with Reserpine on the Changes in Filtration Rate of <i>Mytilus edulis</i> Subjected to Dissolved Copper, W85-04378	1808 5C
HOSSAIN, M. M. Water Use-Yield Relations for Cowpea and Maize, W85-06281	1812 3F		HOWELL, T. A. Automated Weather Data Collection for Research on Irrigation Scheduling, W85-01181	1803 7B
HOSTOVSKY, T. Comparison of Current Methods of Poliovirus Concentration from Tap Water, W85-04492	1809 5F		Evaluation of Cotton Canopy Temperature to Detect Crop Water Stress, W85-03368	1807 2I
HOTCHKISS, W. R. Water Resources Division Training Catalog, W85-02032	1804 9B		Response of Cotton Water Stress Indicators to Soil Salinity, W85-05164	1810 2I
HOTSUTA, M. Note on Boundary Effects on Stream Meandering, W85-01275	1803 2E		Soil Sensor Control of High-Frequency Irrigation Systems, W85-01182	1803 3F
HOUBA, C. Cadmium Toxicity and Accumulation by <i>Tetrahymena pyriformis</i> in Contaminated River Waters, W85-02748	1806 5C		Water Use Efficiency of Narrow Row Cotton, W85-05918	1811 3F
HOUCK, C. P. Ten Years of Experience with Subsurface Injection, W85-06086	1811 5D		HOWELLS, D. H. Policies and Procedures for Land Treatment of Wastewater, W85-00082	1801 5D
HOUCK, J. E. Migration of Chlorophenolic Compounds at the Chemical Waste Disposal Site at Alkali Lake, Oregon - I. Site Description and Ground-Water Flow, W85-02693	1805 5B		HOWELLS, G. D. Effects of Power Station Cooling Water Discharges on Aquatic Ecology, W85-04507	1809 5C
HOUCK, M. H. Effects of Risk and Reliability on Optimal Reservoir Design, W85-01378	1803 8A		HOWES, B. L. Carbon Flow Through Oxygen and Sulfate Reduction Pathways in Salt Marsh Sediments, W85-02790	1806 2L
Problem Oriented Evaluation of Institutional Decision Making and Improvement of Models Used in Regional Urban Runoff Management: Application to Indiana, W85-06306	1812 6A		HOWITT, R. E. Managing Water Scarcity: An Evaluation of Interregional Transfers, W85-02145	1804 6F
Real-Time Reservoir Operations by Goal Programming, W85-01566	1803 6A		HOYER, M. V. Factors Affecting the Relation Between Phosphorus and Chlorophyll a in Midwestern Reservoirs, W85-00889	1802 2H
Stochastic Optimization Model for Real-Time Operation of Reservoirs Using Uncertain Forecasts, W85-02360	1805 4A		Sources of Variability in Phosphorus and Chlorophyll and Their Effects on Use of Lake Survey Data, W85-01383	1803 2H
HOUGHTON, R. L. Atmospheric Deposition: Sample Handling, Storage, and Analytical Procedures for Chemical Characterization of Event-Based Samples in North Dakota, W85-03949	1808 5A		HOYER, O. Investigations on the Influence of Algenic Organic Matter on Flocculation and Flocseparation (Untersuchungen zur Beeinflussung der Flockung und Flockenabtrennung durch algenartige organische Substanzen), W85-05451	1810 5F
HOULDSWORTH, D. Membrane-Enhanced Anaerobic Digesters, W85-05282	1810 5D		Mass Cultivation of Planktonic Freshwater Algae for the Production of Extracellular Organic Matter (EOM), W85-07026	1812 2H
HOUMES, H. K. Fast-Track Design, Construction, and Start-Up of a Cheese Manufacture Wastewater Pretreatment Plant, W85-05569	1810 5D		Reaction Mechanisms Involved in the Influence of Algenic Organic Matter on Flocculation, W85-05452	1810 5F

## AUTHOR INDEX

**HOYLAND, G.**

**HOYLAND, G.**  
Aerobic Treatment in 'Oxitron' Biological Fluidized Bed Plant at Coleshill,  
W85-04593 1809 5D

**HOYT, R. D.**  
Seasonal and Spatial Distribution of Zooplankton in a Flood Control Reservoir and Tailwater,  
W85-06984 1812 6G

**HREN, J.**  
Measurement of the Reaeration Coefficients of the North Fork Licking River at Utica, Ohio, by Radioactive Tracers,  
W85-00853 1802 5A

**HRONADKA II, T. V.**  
Nodal Domain Integration Model of Two-Dimensional Advection-Diffusion Processes,  
W85-04163 1808 2F

**HRONADKA, T. V. II.**  
Simple Model of a Phreatic Surface Through an Earth Dam,  
W85-04175 1808 2F

**HRUBEC, J.**  
Impact of Chlorine, Chlorine dioxide and Ozone on the Oxidation of NTA during Drinking Water Treatment,  
W85-02965 1806 5F

**Mutagenic Activity Associated with By-Products of Drinking Water Disinfection by Chlorine, Chlorine Dioxide, Ozone and UV-Irradiation,**  
W85-01216 1803 5C

**HSIAO, T. C.**  
Soil Surface Psychrometer for Measuring Humidity and Studying Evaporation,  
W85-06197 1812 7B

**HSIEH, Y. P.**  
Using Clay Mineralogy to Infer Sources of Suspended Clay and Silt in a Watershed: Quantitative Approach,  
W85-03969 1808 2J

**HSU, C. C.**  
Fermentation Process for Dilute Food and Dairy Wastes,  
W85-05257 1810 5D

**HSU, D. Y.**  
Pilot Study for the Removal of Priority Pollutants by the PACT Process,  
W85-05425 1810 5D

**HSU, S. C.**  
Isolation of Legionella Species from Drinking Water,  
W85-02941 1806 5B

**HSUEH, S.-F.**  
Impact of Sewage Bypass on Newark Bay,  
W85-06362 1812 5C

**Phosphorus Management LP Model Case Study,**  
W85-02977 1806 5G

**HSUEH, Y.**  
Tidal Phase Control of Sediment Discharge from the Yangtze River,  
W85-02292 1805 2J

**HU, D.-X.**  
Tidal Phase Control of Sediment Discharge from the Yangtze River,  
W85-02292 1805 2J

**HU, Z.**  
Geochemistry of the Sediment Interstitial Water in the Adjacent Sea Area to the Changjiang River Estuary,  
W85-01048 1802 2L

**HUANG, J. Y. C.**  
Investigation of the Removal of Organics and Nitrogen in an Oxidation Ditch,  
W85-07044 1812 5D

**Metal Inhibition of Nitrification,**  
W85-05234 1810 5D

**Oxygen Uptake Rates for Determining Microbial Activity and Application,**  
W85-06230 1812 5D

**HUANG, P. M.**  
Dynamics and Mechanisms of Arsenite Oxidation by Freshwater Lake Sediments,  
W85-02080 1804 5B

**Dynamics of Desorption of Mercury Absorbed on Poorly Crystalline Oxides of Manganese, Iron, Aluminum, and Silicon,**  
W85-02627 1805 5B

**HUANG, P.-S.**  
Lagrangian Transport Model for Estuaries,  
W85-02270 1805 2L

**HUANG, S.-D.**  
Hexavalent Chromium Removal in a Foam Flotation Pilot Plant,  
W85-06842 1812 5D

**HUBAC, C.**  
Role of the Photoperiod on Drought Adaptation of Cotton (Role de la Photoperiode dans l'Adaptation a la Secheresse des Cotonniers),  
W85-02336 1805 2I

**HUBBARD, J. G.**  
Applicability of the Fluorescein Diacetate Method of Detecting Active Bacteria in Freshwater,  
W85-03306 1807 5A

**HUBBARD, J. W.**  
Subsidy and Tax Effects of Controlling Stream Sedimentation in South Carolina,  
W85-05966 1811 4D

**HUBBELL, J. W.**  
Oil Waste Treatment and Reclamation in the Automotive Industry,  
W85-03245 1810 5D

**HUBER, D.**  
Ultraviolet Disinfection of Secondary Effluent,  
W85-01654 1804 5D

**HUBERT, W. A.**  
Intraspecific Resource Partitioning by Yellow Perch (*Perca flavescens*) in a Stratified Lake,  
W85-03826 1808 2H

**Variation in Polychlorinated Biphenyl Levels in Common Carp from a Primarily Agricultural Drainage,**  
W85-04065 1808 5B

**HUBNER, D.**  
Behaviour of Organic Micropollutants (PAH, PCB, and BHC) and of a Fecal Sterol in the Husum Estuary and in the Adjacent North Frisian Wadden Sea (Verhalten organischer Umweltchemikalien (PCA, PCB und HCH) und eines faalen Sterols in der Husumer Aue und auf den angrenzenden Wattern - Nordfriesland),  
W85-04808 1809 5B

**Behaviour of Polycyclic Aromatic Hydrocarbons in the Exe Estuary, Devon,**  
W85-01841 1804 5B

**HUCK, P. M.**  
Leachability of Barium-Radium Sulfate Sludges,  
W85-05261 1810 5B

**HUCKINS, J. N.**  
Fate of Kepone and Mirex in the Aquatic Environment,  
W85-00160 1801 5B

**HUDD, R.**  
Effects of Environmental Changes on the Fisheries and Fish Stocks in the Archipelago Sea and the Finnish Part of the Gulf of Bothnia,  
W85-02388 1805 5C

**HUDDLESTON, R. L.**

**AQAT: A Mobile Wastewater Treatability Assessment System,**  
W85-05573 1810 5D

**HUDLOW, M. D.**

**Quantitative Precipitation Forecast Techniques for Use in Hydrologic Forecasting,**  
W85-03864 1808 2A

**HUDSON, J. A.**

**Industrial Effluent Treatment at Sewage-Treatment Works: The Tadcaster Experience,**  
W85-04521 1809 5D

**Nutrient Inputs and Outputs in a Forested and Grassland Catchment at Plynlimon, Mid Wales,**  
W85-06278 1812 5B

**HUDSON, P.**

**Movement, Transport, and Scour of Particulate Organic Matter and Aquatic Invertebrates Downstream from a Peaking Hydropower Project,**  
W85-06973 1812 6G

**HUDSON, R. J. M.**

**Development and Calibration of the Integrated Lake-Watershed Acidification Study Model,**  
W85-05321 1810 2K

**HUEBNER, R. S.**

**Irrigation in Humid Areas: Net Benefits,**  
W85-01576 1803 2G

**HUETE, A. R.**

**Soil Cation Leaching by 'Acid Rain' with Varying Nitrate-to-Sulfate Ratios,**  
W85-01283 1803 5B

**HUFFAKER, R. G.**

**Distribution of Economic Rents When Irrigated Farmland is Leased: The Case of the Imperial Valley, California,**  
W85-05330 1810 6F

**HUFFMAN, G. C.**

**Ground-Water Data for Michigan--1982,**  
W85-00615 1802 7C

**HUFFMIRE, M.**

**Economic, Legal and Institutional Relations Involved in Diversion and Other Interbasin Transfers,**  
W85-06304 1812 6A

**Economic, Legal and Institutional Relations Involved in Diversion and Other Interbasin Transfers,**  
W85-06307 1812 6A

**HUGGETT, R. J.**

**Evaluation of Elutriate Test Parameters for an Organic Hydrophobic Pollutant, Kepone,**  
W85-01319 1803 5A

**Kepone Concentration in Juvenile Anadromous Fishes,**  
W85-01847 1804 5B

**HUGGINS, L. F.**

**Laboratory Study of Rill Hydraulics: I. Velocity Relationships,**  
W85-03387 1807 2E

**Laboratory Study of Rill Hydraulics: II. Shear Stress Relationships,**  
W85-03388 1807 2J

**HUGHES, D. A.**

**Isolated Event Model Based upon Direct Runoff Calculations Using an Implicit Source Area Concept,**  
W85-02829 1806 2E

**HUGHES, D. E.**

**Adsorption of Copper, Lead and Cobalt by Activated Carbon,**  
W85-01717 1804 5D

## AUTHOR INDEX

HUQ, A.

<b>HUGHES, G. M.</b>							
Cardio-Respiratory Responses of Rainbow Trout During Recovery from Zinc Treatment, W85-05853	1811	SC					
<b>HUGHES, L. J.</b>							
Distribution Problems in Water Supply, W85-03320	1807	5F					
<b>HUGHES, M. W.</b>							
Recharge in Karst and Dune Elements of a Semi-Arid Landscape as Indicated by Natural Isotopes and Chloride, W85-05530	1810	2F					
<b>HUGHES, T. C.</b>							
Price Rigidity and Quantity Rationing Rules Under Stochastic Water Supply, W85-01339	1803	3D					
Salt Gradient Ponds: Investment Timing Model, W85-03061	1806	3C					
Water Demand at Western U.S. Recreation Developments, W85-03140	1806	6D					
<b>HUGHES, W. C.</b>							
Hydraulic Jump Properties over a Rough Bed, W85-03787	1808	8B					
Optimal Channel Cross Section with Freeboard, W85-02448	1805	8A					
<b>HUGHES, W. D.</b>							
Training Programmes in Federal Systems of Government, W85-01989	1804	6F					
<b>HUGHEY, R. E.</b>							
New Tactic Against Hazardous Waste, W85-06818	1812	6E					
<b>HUGMAN, S. J.</b>							
Objectives of a Water Quality Monitoring Programme for the International River Basins in a Developing Country in Southern Africa - Mozambique, W85-01391	1803	5A					
<b>HUI, J.</b>							
Variation in the Contents of Nitrogenous Compounds in Precipitation over Lake Donghu, Wuhan, W85-01047	1802	5B					
<b>HULBERT, A. W.</b>							
Ecosystem Definition and Community Structure of the Macrobenthos of the NEMP Monitoring Station at Pigeon Hill in the Gulf of Maine, W85-05580	1810	2L					
<b>HULL, J. C.</b>							
Water Relations of Oak Species On and Adjacent to a Maryland Serpentine Soil, W85-03015	1806	2I					
<b>HULL, L. C.</b>							
Geochemistry of Ground Water in the Sacramento Valley, California, W85-03926	1808	2K					
<b>HULLETT, J. F.</b>							
Multi-Objective Optimization Model for Aquifer Management under Transient and Steady-State Conditions, W85-06562	1812	4B					
<b>HULLINGS, S.</b>							
Intensive Survey: Manasquan Estuary, May-September 1978, W85-00818	1802	5A					
<b>HULSMAN, R. B.</b>							
Closed Border Irrigation Evaluations, W85-03486	1807	3F					
<b>HULSTEIN, W.</b>							
Use of Tempe Cell, Modified to Restrain Swelling, for Determination of Hydraulic Conductivity and Soil Water Content, W85-00155	1801	2G					
<b>HULT, M. F.</b>							
Degradation of Phenolic Contaminants in Ground Water by Anaerobic Bacteria: St. Louis Park, Minnesota, W85-00348	1801	5D					
<b>HUMBER, J.</b>							
Phytoplankton of Lake Simcoe During the Ice-Free Periods of 1980-82 and Potential Response to Reduced Phosphorus Loadings, W85-06860	1812	2H					
<b>HUMENICK, M. J.</b>							
Biological Treatability of Underground Coal Gasification Wastewater, W85-05436	1810	5D					
Water Pollution Control for Underground Coal Gasification, W85-00717	1802	5B					
<b>HUMENIK, F. J.</b>							
Policies and Procedures for Land Treatment of Wastewater, W85-00082	1801	5D					
<b>HUMMERT, E.</b>							
Determination of Chemical Threshold Concentrations Using 2-D to Control Selected Aquatic Macrophytes: A Pilot Study to Evaluate a Laboratory System, W85-06917	1812	4A					
<b>HUMPHERRYS, A. S.</b>							
Surface Films Affecting Velocity Profiles of Slowly Moving Water in Open Channels, W85-05169	1810	2E					
<b>HUMPHRIES, J. A.</b>							
Free Flow Upstream of Vertical Sluice Gates, W85-00524	1802	8B					
Turbulent Non-Buoyant Surface Jets, W85-00195	1801	8B					
<b>HUMPHRIES, R. W.</b>							
Underground Design at Andekaleka Hydroelectric Development, W85-06043	1811	8A					
<b>HUNDAL, H.</b>							
Recommended Procedures for Evaluating Trade-Offs Between CBOD and NBOD in the Wasteload Allocations, (Draft), W85-06365	1812	6A					
<b>HUNDAL, S. S.</b>							
In Situ Water Transmission Characteristics of a Tropical Soil under Rice-Based Cropping Systems, W85-06685	1812	2G					
<b>HUNG, Y.-T.</b>							
Batch Adsorption of Organic Pollutants from Oxidation Pond Effluents Using Fly Ashes, W85-05445	1810	5D					
Batch Reactor Activated Sludge Treatment of Milk Processing Wastewaters, W85-00212	1801	5D					
<b>HUNGR, O.</b>							
Quantitative Analysis of Debris Torrent Hazards for Design of Remedial Measures, W85-05529	1810	2J					
<b>HUNGSPREUGS, M.</b>							
Heavy Metals and Polycyclic Hydrocarbon Compounds in Benthic Organisms of the Upper Gulf of Thailand, W85-01484	1803	5B					
Trace Metal Composition of and Accumulation Rates of Sediments in the Upper Gulf of Thailand, W85-02654	1805	5B					
<b>HUNSAKER, C. T.</b>							
Biomonitoring for Toxics Control in NPDES Permitting, W85-07048	1812	5A					
<b>HUNT, B.</b>							
Dam-Break Solution, W85-00724	1802	2E					
Perturbation Solution for Dam-Break Floods, W85-02264	1805	8B					
Seepage to Collection Gallery Near Seacoast, W85-05794	1810	2F					
<b>HUNT, C.</b>							
Accumulation of Sediments, Trace Metals (Pb, Cu) and Total Hydrocarbons in Narragansett Bay, Rhode Island, W85-03500	1807	5B					
<b>HUNT, D. F.</b>							
Scheme for the Direct Analysis of Organics in the Environment by Tandem Mass Spectrometry, W85-04656	1809	5A					
<b>HUNT, D. T. E.</b>							
Dissolved Silicon in a North Wales Catchment of High Relief, W85-06728	1812	2K					
<b>HUNT, G. S.</b>							
Time of Travel and Dispersion Study in the Androscoggin River Basin, Maine, W85-03911	1808	2E					
<b>HUNT, O. R.</b>							
Carbon Treatment of Pesticide Wastewaters in Light of Best Available Technology Effluent Limitation Guidelines, W85-05267	1810	5D					
<b>HUNT, T. P.</b>							
Toxic Effects of Petroleum and Shale JP-4 and JP-8 Aviation Fuels on Fathead Minnows, W85-06238	1812	5C					
<b>HUNT, W. A.</b>							
Water Hammer: Causes and Effects, W85-03626	1807	8B					
<b>HUNTER, I. R.</b>							
Investigation of the Carrying Capacity of the Monocacy River as a Scenic and Recreational Resource, Volume II. Characteristics and Interpretations of Selected Social and Environmental Considerations Important to the Monocacy River, W85-00606	1802	6G					
<b>HUNTER, R. G.</b>							
Use of Nephelometric Turbidity to Calculate Carlson's Trophic State Index in Keystone Lake Oklahoma, W85-02248	1805	2H					
<b>HUNTER, T. A.</b>							
Treatment of Spent Detergent Solution Containing Monoethanolamine, W85-05296	1810	5D					
<b>HUNTOON, P. W.</b>							
Fault Severed Aquifers Along the Perimeters of Wyoming Artesian Basins, W85-05838	1810	2F					
Rejection of Recharge Water from Madison Aquifer Along Eastern Perimeter of Bighorn Artesian Basin, Wyoming, W85-06824	1812	2F					
<b>HUPP, C. R.</b>							
Geomorphic and Vegetative Characteristics along Three Northern Virginia Streams, W85-02834	1806	2E					
<b>HUQ, A.</b>							
Influence of Water Temperature, Salinity, and pH on Survival and Growth of Toxicigenic Vibrio cholerae Serovar O1 Associated with Live Copropods in Laboratory Microcosms, W85-02601	1805	5B					

**AUTHOR INDEX**

**HUQ, M. I.**

**HUQ, M. I.**  
Influence of Water Temperature, Salinity, and pH on Survival and Growth of Toxigenic *Vibrio cholerae* Serovar O1 Associated with Live Copepods in Laboratory Microcosms, W85-02601 1805 5B

**HURLEY, J. P.**  
Ground Water as a Silica Source for Diatom Production in a Precipitation-Dominated Lake, W85-05775 1810 2H

**HURLEY, P. A.**  
Southwest Drought Research Program. Final Report, W85-04195 1808 3B

**HUSAR, J. D.**  
Regional River Sulfur Runoff, W85-04481 1809 5B

**HUSAR, R. B.**  
Regional River Sulfur Runoff, W85-04481 1809 5B

**HUSBAND, F. M.**  
Mechanisms of Metal Adsorption from Aqueous Solutions by Waste Tyre Rubber, W85-01724 1804 5D

**HUSSAIN, A.**  
Deflection Measurements of the Upstream Asphaltic Membrane of Marchlyn Dam, W85-02682 1805 8D

**HUSSAIN, M.**  
Real World Design: Appropriate Technology for Developing Nations, W85-00707 1802 6B

**HUSSAIN, M. A.**  
Hydrolytic and Metabolic Products of Acephate in Water and Mouse Liver, W85-02813 1806 5B

**HUSTON, M. L.**  
Relationship of Young-of-the-Year Northern Pike to Aquatic Vegetation Types in Backwaters of the Upper Mississippi River, W85-03634 1808 8I

**HUSZAR, P. C.**  
Economics of Timing Storm Drainage Improvements, W85-03159 1806 6B

**HUTAREW, A.**  
'Rennfeld' Small-Scale Hydroelectric Power Plant Near Pforzheim (Kleinwasserkraftanlage 'Rennfeld' bei Pforzheim), W85-04629 1809 8A

**HUTCHINS, M. L.**  
Cellular Phosphorus Concentration as a Criterion for Trophic Status in Rapidly Flushed Lakes, W85-04846 1809 2H

**HUTCHINS, S. R.**  
Anaerobic Inhibition of Trace Organic Compound Removal During Rapid Infiltration of Wastewater, W85-03435 1807 5D

Fate of Trace Organics During Rapid Infiltration of Primary Wastewater at Fort Devens, Massachusetts, W85-01730 1804 5D

Microbial Removal of Wastewater Organic Compounds as a Function of Input Concentration in Soil Columns, W85-03434 1807 5D

**HUTCHINSON, B. G.**  
Pricing and Expansion of a Water Supply System, W85-04241 1808 6C

**HUTCHINSON, C. B.**  
Ground-Water Models as a Management Tool in Florida, W85-03913 1808 6A

Ground-Water Models as a Management Tool in Florida, W85-03924 1808 2F

Hydrogeology of the Verna Well-Field Area and Management Alternatives For Improving Yield and Quality of Water, Sarasota County, Florida, W85-03904 1808 2F

Hydrogeology of Well-Field Areas near Tampa, Florida, Phase 2—Development and Documentation of a Quasi-Three-Dimensional Finite-Difference Model for Simulation of Steady-State Ground-Water Flow, W85-02052 1804 2F

**HUTCHINSON, R. D.**  
Changes on the Shallow Ground-Water Resources of the Yellowstone River Valley near Billings, Montana, August 1968-1978, W85-03938 1808 2F

**HUTCHINSON, T. C.**  
Red Herrings in Acid Rain Research, W85-00288 1801 5B

**HUTTON, M. B.**  
Sulfate in Lakes of Eastern Canada; Calculated Yields Compared with Measured Wet and Dry Deposition, W85-05039 1810 5B

**HUTTUNEN, P.**  
Phytoplankton in 151 Eastern Finnish Lakes: Species Composition and its Relations to the Water Chemistry, W85-04543 1809 2H

Varve-Dated Eutrophication History of a Small Lake, W85-05628 1810 5C

**HUTZINGER, O.**  
Environmental Fate and Monitoring of Organic Micropollutants, W85-03284 1807 5A

**HUYAKORN, P. S.**  
Finite Element Matrix and Mass Balance Computational Schemes for Transport in Variably Saturated Porous Media, W85-05798 1810 5B

Techniques for Making Finite Elements Competitive in Modeling Flow in Variably Saturated Porous Media, W85-02366 1805 2G

**HUZZEY, L. M.**  
Dynamics of a Bathymetrically Arrested Estuarine Front, W85-00660 1802 2L

**HVITVED-JACOBSEN, T.**  
Fate of Heavy Metals in Stormwater Runoff from Highway Bridges, W85-00746 1802 5B

Fate of Phosphorus and Nitrogen in Ponds Receiving Highway Runoff, W85-00748 1802 5B

**HWANG, C. J.**  
Determination of Subnanogram per Liter Levels of Earthy-Musty Odorants in Water by the Salted Closed-Loop Stripping Method, W85-01126 1803 5A

**HWANG, C. T.**  
Underground Utilities in Barrow, Alaska, W85-04925 1809 6A

**HWANG, H.**  
Thermodynamics of the Hydrogen Peroxide-Water System, W85-05118 1810 5B

**HWANG, J.**  
Study and Planning of Reservoir Desilting in Taiwan, W85-06542 1812 4A

**HWANG, J. C.**  
Eigenvalue Solution Continuous in Time to the Spatially Discretized Solute Transport Equation in Steady Groundwater Flow, W85-03573 1807 5B

Eigenvalue Technique for Solute Transport, W85-03004 1806 5B

**HYARE, G.**  
Improving the Performance of Houston's Southwest Wastewater Treatment Plant, U.S.A., W85-03653 1807 5D

**HYATT, K. D.**  
Responses of Sockeye Salmon (*Oncorhynchus nerka*) to Fertilization of British Columbia Coastal Lakes, W85-04847 1809 8I

**HYMAN, E. L.**  
SAGE: A New Participant-Value Method for Environmental Assessment, W85-04999 1810 6A

**HYVARINEN, H.**  
Heavy Metals and High Pup Mortality in the Saimaa Ringed Seal Population in Eastern Finland, W85-02839 1806 5C

**IBAD-ZADE, YU. A.**  
New Method of Determining the Stable Cross Section of a Channel in Cohesionless Soils, W85-00473 1801 8B

**IBANEZ, M. S. R.**  
Effect of Nutrient Enrichment on the Natural Phytoplankton Community of Lake Biwa Maintained in Glass Bottles, W85-03510 1807 5C

**IBRAHIM, A. M.**  
Nile: Description, Hydrology, Control and Utilisation, W85-01024 1802 2H

**IBRAHIM, E. A.**  
Experimental Studies on the Effect of Sodium Chloride, Dimethoate and Bayluscide on the Growth and Metabolism of the Alga *Staurastrum Boreale* W. West, W85-06390 1812 5C

**IBRAHIM, J.**  
Chlorine as an Algicide in a Conventional Water Treatment Plant, W85-01749 1804 5F

**IBRAHIM, M.**  
Influence of Soil Drying on the Water Relations and Growth of Douglas Fir (*Pseudotsuga menziesii* (Mirb.) Franco) (Influence du dessèchement du sol sur le fonctionnement hydrique et la croissance du douglas (*Pseudotsuga menziesii* (Mirb.) Franco)), W85-02716 1806 2I

Speciation of Arsenic and Cadmium Compounds by Reversed-Phase Ion-Pair LC with Single-Wavelength Inductively Coupled Plasma Detection, W85-03865 1808 5A

**IBUSUKI, T.**  
Mass Transfer of NH<sub>3</sub> into Water at Environmental Concentrations, W85-04040 1808 2K

**ICHIKAWA, A.**  
Estimation of Acceptable Water Quality Conditions in the Tama River, Japan, W85-01403 1803 5B

AUTHOR INDEX

INGOLD, A.

**ICHIKAWA, G.**  
Relationships between Physiological Stress and Trace Toxic Substances in the Bay Mussels, *Mytillus edulis*, from San Francisco Bay, California, W85-01350 1803 5C

**ICHIMURA, S.**  
Phytoplankton Diversity in Inland Waters of Different Trophic Status, W85-03506 1807 2H

Uptake of Carbon and Inorganic Nitrogen in a Eutrophic Lake, Lake Nakanuma, Japan, from Spring Through Summer, W85-06400 1812 2H

**ICHIMURA, S. E.**  
Applicability of the Stable Isotope Method using  $^{13}\text{C}$  and  $^{15}\text{N}$  Simultaneously to the Estimation of Carbon and Nitrogen Assimilation in a Eutrophic, Freshwater Lake, Lake Nakanuma, Japan, W85-06445 1812 2H

**ICHINOSE, N.**  
Gas Chromatographic Determination of Hydrogen Sulphide in Anoxic Waters, W85-01151 1803 5A

**IDEL, K. H.**  
Evidential Monitoring of Dams (Aussagefähigkeit von Kontrollmessungen an Absperrbauwerken), W85-03261 1807 8A

**IDEL'SON, V. B.**  
Seepage in the Foundation of the Krasnoyarsk Dam, W85-00488 1801 8A

**IDELOVITCH, E.**  
Soil-Aquifer Treatment - A New Approach to an Old Method of Wastewater Reuse, W85-02573 1805 5D

**IDSO, S. B.**  
Case for Carbon Dioxide, W85-01440 1803 4C

Evaluation of Canopy Temperature-Evapotranspiration Models over Various Crops, W85-06196 1812 2D

Non-Water-Stressed Baselines: A Key to Measuring and Interpreting Plant Water Stress, W85-01073 1802 2I

Quantifying Effects of Atmospheric CO<sub>2</sub> Enrichment on Stomatal Conductance and Evapotranspiration of Water Hyacinth via Infrared Thermometry, W85-06202 1812 2D

Stability of Non-Water-Stressed Baselines, W85-06198 1812 2D

Stomatal Conductance and Photosynthesis in Water Hyacinth: Effects of Removing Water from Roots as Quantified by a Foliage-Temperature-Based Plant Water Stress Index, W85-06200 1812 2I

**IFE, D.**  
Simplified Graphical Solution of the Theis Equation, W85-02465 1805 4B

**IFUKU, M.**  
Studies on the Seawater Intrusion in Coastal Groundwater; II. Groundwater at the Mouth of the Kiki River (in Japanese), W85-00543 1802 2F

**IGARASHI, K.**  
Behavior of Organically-Bound Iron in Lake Ohnuma, W85-00932 1802 2H

Behavior of Organically-Bound Iron in Seawater of Estuaries, W85-01913 1804 2L

**IGARASHI, Y.**  
Separation of Aromatic Substances from Aqueous Solutions Using a Reverse Osmosis Technique with Thin, Dense Cellulose Acetate Membranes, W85-01313 1803 5D

**IHANTOLA, R.**  
Mercury in Some Higher Aquatic Plants and Plankton in the Estuary of the River Kokemäenjoki, Southern Finland, W85-02845 1806 5B

**IHNAT, J. M.**  
Effects of Subacute Cadmium Exposure on a Hardwater Mountain Stream Microcosm, W85-07123 1812 5C

Phosphorus Release from the Sediments of Flaming Gorge Reservoir, Wyoming, U.S.A., W85-05630 1810 2H

**IKEDA, Y.**  
Lower Detection Limits Found for Chlorine Dioxide Contaminants, W85-01909 1804 5F

**IKRAMULLAH, M.**  
Modification of Irrigation Requirement of Wheat Through Mulching and Foliar Application of Transpiration Suppressants, W85-05923 1811 3F

**ILGENFRITZ, E. M.**  
EPA/RCRA Landfill Regulations - A Discussion, W85-03714 1807 6E

**ILLANGASEKARE, T. H.**  
Application of a Physically-Based Distributed Parameter Model for Arid-Zone Surface-Groundwater Management, W85-03752 1807 4B

Design of a Physically-Based Distributed Parameter Model for Arid-Zone Surface-Groundwater Management, W85-03751 1807 2A

Technique of Reinitialization for Efficient Simulation of Large Aquifers Using the Discrete Kernel Approach, W85-03574 1807 2F

**ILMAVIRTA, K.**  
Phytoplankton in 151 Eastern Finnish Lakes: Species Composition and its Relations to the Water Chemistry, W85-04543 1809 2H

**ILOABACHIE, B. C.**  
Earth Foundation Treatment at Jebba Dam Site, W85-01871 1804 8D

**ILITIS, A.**  
Phytoplankton Biomass of Ebrie Lagoon (Ivory Coast) (Biomasses Phytoplanctoniques de la Lagune Ebrie (Côte d'Ivoire)), W85-03693 1807 2L

**ILYUSHIN, V. F.**  
Calculation of the Lining of a Noncircular Tunnel, W85-02230 1805 8A

Selection and Substantiation of Effective Drainage Protection of the Gate Works of the Diverion Tunnels of the Rogun Hydroelectric Station, W85-05027 1810 8A

**IMAMURA, Y.**  
Treatment of Highly Fouling Waste Waters with Tubular Membrane Systems, W85-01225 1803 5D

**IMBENOTTE, M.**  
Relation between Toxicity and Free Forms of Some Trace Metals (Relation entre Toxicité et Formes Libres de Quelques Métaux Traces), W85-05976 1811 5C

**IMBERGER, J.**  
Classification and Dynamic Simulation of the Vertical Density Structure of Lakes, W85-02222 1805 2H

**IMBODEN, D.**  
Effects of Internal Measures in Baldeggsee: Forced-Circulation and Oxygenation of the Hypolimnion (Die Auswirkungen von internen Massnahmen im Baldeggsee: Zwangszirkulation und Sauerstoffbegasung des Hypolimnions), W85-04559 1809 5G

**IMBODEN, D. M.**  
Modelling Concepts for Hydrophobic Organic Pollutants in Lakes, W85-00264 1801 5B

Turbulent Mixing in the Hypolimnion of Baldeggsee (Switzerland) Traced by Natural Radon-222, W85-02221 1805 2H

**IMHOFF, K. R.**  
Cadmium Balance and Restoration Strategy for a River Basin, W85-01409 1803 5D

Design and Operation of the Purification Lakes in the Ruhr Valley, W85-04459 1809 5G

Experiences with Polishing Lagoons, W85-03651 1807 5D

**IMITRIEV, N. V.**  
Cutoff Works at the Hao-Binh Hydrostation in Vietnam, W85-00501 1801 8A

**INABA, H.**  
Natural Convection in an Inclined Square Cavity in Regions of Density Inversion of Water, W85-01519 1803 8B

**INBAR, M.**  
Measurement of Fluvial Sediment Transport Compared with Lacustrine Sedimentation Rates: the Flow of the River Jordan into Lake Kinneret, W85-00691 1802 2J

Water Resource Planning and Development in the Northern Jordan Valley, W85-03701 1807 6B

**INDERMAUR, W.**  
Tasks of the Dam Keeper (Les Tâches du Gardien de Barrage), W85-01859 1804 4A

**INGEBRIGTSSEN, K.**  
Comparative Study on the Fate of the Polychlorinated Biphenyl 2,4,5,2',4',5'-Hexachlorobiphenyl and the Polycyclic Aromatic Hydrocarbon Phenanthrene in Flounder (*Platichthys flesus*), Determined by Liquid Scintillation Counting and Autoradiography, W85-03511 1807 5C

**INGEBRITSSEN, S. E.**  
Geohydrology, Aqueous Geochemistry, and Thermal Regime of the Soda Lakes and Upas Hogback Geothermal Systems, Churchill County, Nevada, W85-03898 1808 2F

**INGERMAN, R. L.**  
Seasonal Variation of Arsenic Concentration in Well Water in Lane County, Oregon, W85-02414 1805 5B

**INGOLD, A.**  
Influence of Sulphide on the Distribution of Higher Plants in Salt Marshes, W85-03741 1807 2L

**AUTHOR INDEX**

**INGRAM, D. M.**

**INGRAM, D. M.**  
Effects of Municipal Sewage Sludge-Cake on Nitrogen and Phosphorus Distributions in a Pine Plantation,  
W85-05387 1810 5E

**INGRAM, R. G.**  
Near Bottom Variations of Turbidity in the St. Lawrence Estuary,  
W85-04677 1809 2L

**INKINA, G. A.**  
Microflora of Bottom Sediments in the Naroch Lake (Mikroflora Donykh Otlozhenii oz. Naroch'),  
W85-06460 1812 2H

**INMAN, D. R.**  
Comparison of Heavy Metals in Aquatic Plants on Charity Island, Saginaw Bay, Lake Huron, U.S.A., with Plants along the Shoreline of Saginaw Bay,  
W85-06740 1812 5B

**INNIS, W. E.**  
Detection and Analysis of Interactions between Atrazine and Sodium Pentachlorophenate with Single and Multiple Algal-Bacterial Populations,  
W85-05107 1810 5C

**INOUCHI, K.**  
Approximate Solution of Fresh Water-Salt Water Interface in Confined Aquifers (in Japanese),  
W85-02252 1805 2F

Fluctuation of the Groundwater Level and Fresh-Salt Water Interface in Response to the Tide (in Japanese),  
W85-00192 1801 2F

Regional Unsteady Fresh Water-Salt Water Interface in Confined Aquifers (in Japanese),  
W85-02256 1805 2F

**INSOLA, A.**  
Ozonation of Aqueous Solutions of Nitrobenzene,  
W85-05829 1810 5D

**INVERARITY, R. J.**  
Trihalomethanes in Some Treated Waters in SE Wales,  
W85-04336 1808 5F

**IONESCU-NISCOV, S.**  
Area-Time Integral as an Indicator for Convective Rain Volumes,  
W85-01542 1803 2B

**IRELAND, J. C.**  
Cost and Benefits of Drinking Water Treatment,  
W85-01649 1804 5F

**IRELAND, R. L.**  
Evaluation of the Potential for Artificial Ground-Water Recharge in Eastern San Joaquin County, California—Phase 2,  
W85-03933 1808 2F

**IRGOLIC, K. J.**  
Determination of Arsenite and Arsenate by Differential Pulse Polarography,  
W85-03412 1807 5A

**IRIYE, T.**  
Distribution of Minor Metallic Elements in River Water of Green Tuff Region, Yamagata Pref.,  
W85-05997 1811 2K

**IRLAND, L. C.**  
Logging and Water Quality; State Regulation in New England,  
W85-05959 1811 5G

**IRMER, U.**  
Effects of Various Organic Chemicals on the Regreening of Red Colored Chlorella zofingiensis,  
W85-05814 1810 5A

**IRVINE, J. R.**  
Preliminary Investigation on Effects of Fluctuating Flows on Invertebrates of the Hawea River, a Large Regulated River in New Zealand,  
W85-04668 1809 2H

**IRVINE, R. L.**  
Enhanced Biological Treatment of Leachates from Industrial Landfills,  
W85-05299 1810 5D

**IRWIN, G. A.**  
Quality of Water Recovered from a Municipal Effluent Injection Well in the Floridian Aquifer System, Pompano Beach, Florida,  
W85-03932 1808 5E

Water-Quality Assessment of Stormwater Runoff from a Heavily Used Urban Highway Bridge in Miami, Florida,  
W85-00841 1802 5B

**IRWIN, J.**  
Predominant Headwater Inflow and its Control of Lake-River Interactions in Lake Wakatipu,  
W85-01638 1804 2H

Water Temperature and Turbidity in Glacially Fed Lake Tekapo,  
W85-01637 1804 2H

**IRWIN, R. W.**  
Corrugated Pipe Flow Rate from Pipe Geometry,  
W85-01514 1803 8B

Effects of Land Drainage on Stream Flow,  
W85-04583 1809 4C

**ISAAC, M.**  
Effects of Flushing Rate on Phosphorus Retention in an Aquatic Biome,  
W85-07147 1812 2H

**ISAAC, T. W.**  
Application of a New Environmentally Acceptable Cooling Water Treatment,  
W85-05991 1811 5F

**ISAACSON, P. J.**  
Comparison of Water and Dilute Acid Treatment on Organic and Inorganic Chemistry of Leachate from Organic-Rich Horizons of an Acid Forest Soil,  
W85-00219 1801 5B

**ISAAKYAN, S. M.**  
New Type of Stilling Basin (Sevan Cascade in Armenia),  
W85-00472 1801 8A

**ISAJI, T.**  
Oil Spill Fishery Impact Assessment Model: Sensitivity to Spill Location and Timing,  
W85-05688 1810 5C

**ISABELL, V. R.**  
Modification of Cotton Water Relations and Growth with Mepiquat Chloride,  
W85-03357 1807 3F

**ISEKI, K.**  
Effect of Wood Waste Dumping on Organic Matter in Seawater and Surficial Sediments of Alberni Inlet, British Columbia,  
W85-02533 1805 5C

**ISELY, R. B.**  
Development and Field Testing of a Methodology for Assessing Community Readiness for Self-Help in the Installation, Maintenance and Repair of Water Supply and Sanitation Facilities,  
W85-01980 1804 7C

**ISENSEE, A. R.**  
Pesticide Availability Influence of Sediment in a Simulated Aquatic Environment,  
W85-06783 1812 5B

**ISHII, T.**  
Behavior of Cadmium in Short-Necked Clam,  
W85-05686 1810 5C

**ISHIKAWA, S.**  
Determination of Trialkyl and Triaryl Phosphates in Environmental Samples,  
W85-04497 1809 5B

**ISHIKAWA, T.**  
Water Surface Profile of Stream with Side Overflow,  
W85-03792 1808 2E

**ISHIMARU, K.**  
Pilot Plant Treatment of Swine Wastes by the Deep Shaft Method,  
W85-05411 1810 5D

**ISHIZUKA, H.**  
Treatment of Highly Fouling Waste Waters with Tubular Membrane Systems,  
W85-01225 1803 5D

**ISMAYLOV, G. KH.**  
Investigation of the Possibility of Using the Composition Method for Determining Mineralization of Water in a River System,  
W85-04120 1808 2K

**ISSAR, A.**  
Effect of Urbanization in an Arid Region: Formation of a Perched Water Table That Causes Environmental Damages,  
W85-02862 1806 2F

**ISTVANOVICS, V.**  
Orthophosphate Uptake of Planktonic Microorganisms in Lake Balaton,  
W85-06389 1812 2H

**ITKINA, O. M.**  
Microflora of Bottom Sediments in the Naroch Lake (Mikroflora Donykh Otlozhenii oz. Naroch'),  
W85-06460 1812 2H

**ITO, H.**  
Ice Movement Through Smith Sound in Northern Baffin Bay, Canada, Observed in Satellite Imagery,  
W85-00672 1802 2C

**ITO, T.**  
Relationship between Morphometric Features and Organic Matter Contents of Bottom Sediments at the Deepest Points of Lakes (in Japanese),  
W85-00534 1802 2H

**ITOJ, J.**  
Behaviour of Proteinaceous Substances in the Estuary of the Tama River,  
W85-02531 1805 2L

**ITOJ, M.**  
Inorganic Carbonate Elimination from Water Samples for Dissolved Organic Carbon Analysis,  
W85-06002 1811 5A

**ITTEKKOT, V.**  
Monitoring Carbon in World Rivers,  
W85-03654 1807 5B

**IVANCIĆ, I.**  
Optimal Manual Procedure for Ammonia Analysis in Natural Waters by the Indophenol Blue Method,  
W85-02433 1805 5A

**IVANNIKOV, V. M.**  
Evaluation of the Engineering-Geological Properties of Clay Foundations of Earth Dams,  
W85-06594 1812 8D

**IVANOV, K. E.**  
Theoretical Principles of Modern Hydrology of Swamps,  
W85-04145 1808 2L

## AUTHOR INDEX

JAFFE, R.

**IVANOV, N. A.**  
Ecological Aspects of the Design and Operation  
of Conduits of Hydroelectric Schemes,  
W85-05986 1811 5G

**IVANOVA, M. N.**  
Influence of Environmental Conditions on the  
Population Dynamics of Smelt, *Osmerus eperlanus* (Osmeridae),  
W85-02855 1806 2H

**IVERSEN, T. M.**  
Quantitative Estimates and Community Structure  
of Invertebrates in a Macrophyte Rich  
Stream,  
W85-06443 1812 2H

**IVERSON, W. P.**  
Accumulation and Fate of Tri-n-butyltin Cation  
in Estuarine Bacteria,  
W85-02185 1805 5B

**IVEY, G. N.**  
Entrainment by Bottom Current in Lake Erie,  
W85-01600 1803 2H

Model of the Vertical Mixing in Lake Erie in  
Summer,  
W85-01328 1803 2H

**IVEY, J. M.**  
Responses of Developing Estuarine Macro-  
benthic Communities to Drilling Muds,  
W85-01845 1804 5C

**IWAHORI, H.**  
Treatment of Highly Fouling Waste Waters with  
Tubular Membrane Systems,  
W85-01225 1803 5D

**IWAKUMA, T.**  
Effects of Insecticides on the Benthic Communi-  
ty in a Model Stream,  
W85-06815 1812 5C

**IWAN, W. D.**  
Hydrodynamic Pressure On Short-Length Grav-  
ity Dams,  
W85-07102 1812 8A

**IWASAKI, T.**  
Material Balance Analysis for Fluoride Ions in  
Experimental Waste Disposal Plant,  
W85-01732 1804 5D

**IZAGUIRRE, G.**  
Controlling Attached Blue-Green Algae with  
Copper Sulfate,  
W85-00703 1802 5G

**IZASHVILI, L. M.**  
Consideration of Yielding of a Rock Foundation  
When Calculating Arch Dams,  
W85-00458 1801 8E

**IZBICKI, J. A.**  
Evaluation of the San Dieguito, San Elijo, and  
San Pasqual Hydrologic Subareas for Reclaimed  
Water Use, San Diego County, California,  
W85-00839 1802 5D

**IZMESTYEVA, L. R.**  
Chlorophyll a in Water of Lake Baikal (Khloro-  
fill a v Vode oz. Baikala),  
W85-06483 1812 5B

**JACK, W.**  
Radionuclides and 210Pb in Clyde Sea Loch  
Sediments,  
W85-00659 1802 5B

**JACKMAN, A. P.**  
Interactions of Solutes and Streambed Sediment;  
1. An Experimental Analysis of Cation and  
Anion Transport in a Mountain Stream,  
W85-03985 1808 2K

Low-Flow Transport Models for Conservative  
and Sorbed Solutes - Uvas Creek Studies,  
W85-03948 1808 2B

Transport and Concentration Controls for Chlo-  
ride, Strontium, Potassium and Lead in Uvas  
Creek, a Small Cobble-Bed Stream in Santa  
Clara County, California, U.S.A.; 1. Conceptual  
Model,  
W85-04270 1808 2K

Transport and Concentration Controls for Chlo-  
ride, Strontium, Potassium and Lead in Uvas  
Creek, Small Cobble-Bed Stream in Santa  
Clara County, California, U.S.A.; 2. Mathemati-  
cal Modeling,  
W85-04271 1808 2K

**JACKSON, C. R.**  
Application of Science to Water Supply Projects  
in Developing Countries,  
W85-06575 1812 5F

**JACKSON, D.**  
Integrated Hydrochemical Approach to Deduce  
the Response of an Aquifer System During Its  
History of Abstraction,  
W85-03153 1806 2F

Macro-Invertebrate Populations and Production  
on a Salt-Marsh in East England Dominated by  
*Spartina anglica*,  
W85-05703 1810 2L

**JACKSON, F.**  
Evaluation of Electrode Methods for Determining  
Total Residual Chlorine in Various Water  
Matrices,  
W85-02123 1804 7B

**JACKSON, L. E.**  
Phenology and Water Relations of Three Plant  
Life Forms in a Dry Tree-Line Meadow,  
W85-01892 1804 2I

**JACKSON, M. L.**  
Thermophilic Treatment of a High-Biochemical  
Oxygen Demand Wastewater: Laboratory,  
Pilot-Plant and Design,  
W85-05290 1810 5D

**JACKSON, R. J.**  
Investigation of the Properties and Genesis of  
West Coast Wet Land Soils, South Island, New  
Zealand; 5. Physical Characteristics of Soil Pro-  
files and Soil Water Regimes,  
W85-02411 1805 2G

**JACKSON, T. A.**  
Dissolved and Suspended Mercury Species in  
the Wabigoon River (Ontario, Canada): Seasonal  
and Regional Variations,  
W85-02091 1804 5B

**JACKSON, T. J.**  
Effects of Corn Stalk Orientation and Water  
Content on Passive Microwave Sensing of Soil  
Moisture,  
W85-03302 1807 7B

**JACKSON, W. L.**  
Design for a Stable Channel in Coarse Alluvium  
for Riparian Zone Restoration,  
W85-03135 1806 2E

Influences of Increased Sand Delivery on the  
Morphology of Sand and Gravel Channels,  
W85-02979 1806 2J

Nonpoint Pollution Control on Public Lands,  
W85-05957 1811 5G

Storm Runoff and Water Quality on Three  
Ephemeral Washes in the Price River Basin,  
Utah,  
W85-01325 1803 5C

**JACKSTEIT, S.**  
Utilization of Pit Water at the Janschwalde  
Super Power Station as a Means of Rational  
Water Use (Grubenwassereinsatz im Gross-  
werk Janschwalde als Massnahme der ration-  
ellen Wasserverwendung),  
W85-03470 1807 5D

**JACOB, U.**  
Qualitative and Quantitative Entomofaunistic In-  
vestigation of an Opencast Residual Lake near  
Leipzig (DDR),  
W85-04906 1809 2H

**JACOBEL, R. W.**  
Short-Term Variations in Velocity of South Cas-  
cade Glacier, Washington, U.S.A.,  
W85-00675 1802 2C

**JACOBS, B. K.**  
Riprap Stability Under Wave Action,  
W85-07079 1812 8B

**JACOBS, J.**  
Ecology of Lake Nakuru; VI. Synopsis of Pro-  
duction and Energy Flow,  
W85-05704 1810 2H

**JACOBS, M. L.**  
National Survey of Elements and Other Con-  
stituents in Municipal Sewage Sludges,  
W85-02192 1805 5E

**JACOBSEN, N.**  
Case Study, Potable Water Reservoir, Tuk-  
toyaktuk, Northwest Territories,  
W85-04927 1809 6A

**JACOBSON, G.**  
Groundwater Seepage and the Water Balance of  
a Closed, Freshwater, Coastal Dune Lake: Lake  
Windermere, Jervis Bay,  
W85-04698 1809 2F

**JACOBSON, G. L.**  
Aquatic Macrophytes and pH as Controls of  
Diversity for Littoral Cladocerans,  
W85-04202 1808 5C

**JACOBY, J. M.**  
Occurrence, Quality, and Use of Ground Water  
in Orcas, San Juan, Lopez, and Shaw Islands,  
San Juan County, Washington,  
W85-02043 1804 7C

**JACQUET, J.**  
Development of Hydrological Research in  
France Relative to the Influence of Man on  
Water Cycles and the Forecasting of Floods (Le  
développement de la recherche hydrologique en  
France en relation avec l'influence de l'homme  
sur le cycle de l'eau et la prévision des crues),  
W85-03585 1807 9C

Models and Strategy for Taking Measurements  
in Water and in the Air (Modélisation et stra-  
tégie de la mesure dans l'eau et dans l'air),  
W85-02352 1805 7B

**JACQUET, J.-M.**  
Interaction Between Interstitial Water and Sedi-  
ment in Two Cores of Lac Leman, Switzerland,  
W85-02084 1804 2H

**JAFARI, M.**  
Residential Lawn Irrigation Management,  
W85-01195 1803 3F

**JAFFE, F. C.**  
Tracing Groundwater Components by Chemi-  
cal, Isotopic and Physical Parameters - Example:  
Schinznach, Switzerland,  
W85-06046 1811 2F

**JAFFE, F. R.**  
Modeling Sediment and Water Column Interac-  
tions for Hydrophobic Pollutants. Parameter  
Discrimination and Model Response to Input  
Uncertainty,  
W85-02437 1805 5B

**JAFFE, R.**  
Environmental Impact of Two, Adjacent, Haz-  
ardous Waste Disposal Sites in the Niagara  
River Watershed,  
W85-04718 1809 5C

## AUTHOR INDEX

JAGGI, M.

JAGGI, M.  
Discharge Computation in Gravel Rivers (Abflussberechnung in kiesfuhrenden Flüssen),  
W85-03267 1807 2E

JAGOE, C. H.  
Effects of Reduced pH on Three Life Stages of Sunapee Char *Salvelinus alpinus*,  
W85-02780 1806 5C

JAHN, S. A. A.  
First Experiences with a Women-Specific Project for the Water Decade,  
W85-02004 1804 5F

JAHNKE, R.  
Sediment-Water Exchange in Shallow Water Estuarine Sediments,  
W85-02473 1805 5B

JAIN, C. K.  
Estimation of Sulphate Ions in Water and Industrial Wastes Using a Solid State Membrane Electrode,  
W85-04488 1809 7B

JAIN, S. C.  
Aggradation and Degradation of Alluvial-Channel Beds,  
W85-02265 1805 2J

Tangential Vortex-Inlet,  
W85-03783 1808 8B

JAKANOSKI, P. E.  
Evaluation of m-TT Agar as a Fecal Coliform Medium,  
W85-02598 1805 5A

JAKEMAN, A. J.  
Time-Series Models for the Prediction of Stream Flow in a Karst Drainage System,  
W85-06434 1812 2E

JAKUS, P.  
Agricultural Water Pollution Control: An Interdisciplinary Approach,  
W85-05067 1810 6B

JAME, Y. W.  
Salinity and Alfalfa Yield under Effluent Irrigation in Southwestern Saskatchewan,  
W85-02802 1806 3C

JAMES, B. M.  
Application of the Biota Ocean Monitor System to a Study of the Impacts of Ocean Dumping of Dredged Material in the New York Bight,  
W85-00051 1801 5C

JAMES, L. D.  
FY 83 Program Summary Report of Utah Center For Water Resources Research,  
W85-06322 1812 9D

JAMES, L. G.  
Effects of Pump Selection and Terrain on Center Pivot Performance,  
W85-03364 1807 3F

Performance of Low Pressure Center Pivot Systems,  
W85-06083 1811 3F

Predicting Sediment Deposition Patterns in Pipes with Diminishing Flow,  
W85-06084 1811 3F

JAMES, R. O.  
Modelling the Transport of Reacting Chemical Contaminants in Natural Streams,  
W85-00778 1802 5B

JAMES, W.  
Evolving Data Processing Environment For Computational Hydraulics Systems,  
W85-01709 1804 7C

JAMES, W. F.  
Phosphorus Dynamics in an Arkansas Reservoir: The Importance of Seasonal Loading and Internal Recycling,  
W85-06964 1812 2H

JAMIESON, D. G.  
Water Resources of the Thames Basin: Quantitative and Qualitative Aspects,  
W85-03881 1808 6B

JANIA, B. B.  
Ammonification as Affected by the Oxygen Level of Water,  
W85-05615 1810 5C

Spatial and Seasonal Variations of Phosphate Solubilizing Bacteria in Fish Ponds of Varying Fish Farming Managements,  
W85-03233 1807 2H

JANA, S.  
Studies of Toxic Effects of Hg(II) on Pistia stratiotes,  
W85-06372 1812 5C

JANARDAN, K. G.  
Municipal Compliance - Another View,  
W85-02571 1805 6E

JANDA, V.  
Chlorination of Humic Acids and Chloroform Production,  
W85-06648 1812 5F

JANDIK, J.  
Investigation and Development of Swimming Pool Water Treatment, III. Long Contact Time Ozonation for Pool Water Treatment (Erforschung und Entwicklung der Schwimmwasserbehandlung. III. Mitt: Badewasseraufbereitung mit Ozon im Langzeitkontakt),  
W85-02740 1806 5D

JANECZEK, J. JR.  
Treatability of a Coal Gasification Wastewater Using the Powdered Activated Carbon/Activated Sludge Process,  
W85-05270 1810 5D

JANES, E. B.  
Nonpoint Pollution Control on Public Lands,  
W85-05957 1811 5G

JANEVA, I. J.  
Characteristics of Autopurification in the Ossam River, a Tributary of the Danube (Einige Besonderheiten in der Selbstreinigung des Donauzuflusses Ossam),  
W85-03100 1806 5B

JANICKI, A.  
Effect of Phosphorus Additions in Enclosures on the Phytoplankton and Zooplankton of an Acid Lake,  
W85-01454 1803 5C

JANSER, G.  
Determination of Chromium(VI) in Waste Water and Industrial Effluents by Differential Pulse Polarography,  
W85-05526 1810 5A

JANSSEN, D.  
Gas Chromatographic-Mass Spectrometric Investigations on Lipophilic Anthropogenic Substances in Marine Organisms; I. A Clean-up Procedure Consisting of Liquid-Liquid and Reversed Phase (Octadecyl)-Partitioning,  
W85-04986 1810 5A

JANSSEN, J.  
Thermal Effluent as a Sporadic Cornucopia: Effects on Fish and Zooplankton,  
W85-03315 1807 5C

JANSSEN, P.  
Quantitative Structure-Activity Relationships and Toxicity Studies of Mixtures of Chemicals with Anaesthetic Potency: Acute Lethal and Sublethal Toxicity to *Daphnia magna*,  
W85-00882 1802 5C

JANSSENS, G.  
Polycyclic Aromatic Hydrocarbons in Rainwater,  
W85-00741 1802 5B

JANSSENS, J.  
Determination of Aliphatic Aldehydes in Waters by High-Performance Liquid Chromatography,  
W85-07164 1812 5A

JANSSENS, J. G.  
Ozonation and Activated Carbon Filtration: a Critical Evaluation,  
W85-02019 1804 5F

JANSSON, M.  
Experimental Lake Fertilization: Turnover of Nitrogen and Phosphorus in Stratified and Non-Stratified Subarctic Lakes in Northern Sweden,  
W85-04534 1809 2H

JANTA, K.  
Inhibition Coefficient (Ki) Determination in Activated Sludge,  
W85-07125 1812 5D

JANTUNEN, H.  
Application of Landsat Satellite Data for Mapping Aquatic Areas in North-Eastern Finland,  
W85-06805 1812 7B

JANTZ, A.  
Occurrence of DDT and Polychlorinated Biphenyls (PCB) in Fish from Lakes in Schwerin County (Zum Vorkommen von DDT und Polychlorierten Biphenylen (PBC) in Fischen aus Seen des Bezirk Schwerin),  
W85-06275 1812 5C

JANUS, L. L.  
Phosphorus Residence Time in Relation to Trophic Conditions in Lakes,  
W85-02616 1805 2H

JAQUET, J. M.  
Basic Concepts and Associated Statistical Methodology in the Geochemical Study of Lake Sediments,  
W85-02064 1804 2J

Manganese Cycle in Lac Leman, Switzerland: The Role of Metallogenium,  
W85-02081 1804 2H

JARAMILLO, W. F.  
Aggradation and Degradation of Alluvial-Channel Beds,  
W85-02265 1805 2J

JARDIM, W. F.  
Study of the Copper-Complexing Compounds Released by Some Species of Cyanobacteria,  
W85-01725 1804 5B

JARRETT, A. R.  
Effect of Soil Air Entrapment on Erosion,  
W85-03369 1807 4D

Sediment Retention Efficiency of Synthetic Filter Fabrics,  
W85-01189 1803 2J

JARRETT, R. D.  
Hydraulics of High-Gradient Streams,  
W85-03774 1808 2E

JASA, P. J.  
Tillage Influences on Erosion During Furrow Irrigation,  
W85-04749 1809 4C

Tillage, Residue and Erosion on Moderately Sloping Soils,  
W85-03402 1807 2J

JASELSKIS, B.  
Spectrophotometric Determination of Nitrate and Nitrite in Natural Water and Sea-Water,  
W85-06571 1812 5A

JATON, J.-F.  
Hydrological Model for Small Agricultural Catchment Areas (Modélisation des Evenements Averses-Crues sur les Petits Bassins Versants),  
W85-01269 1803 2A

## AUTHOR INDEX

JHU, J.

**JAWORSKI, A. Z.**  
Pedologic Properties of New Jersey Tidal Marshes,  
W85-04955 1809 2L

**JAYAWARDENA, A. W.**  
Numerical Solution of the Dispersion Equation Using a Variable Dispersion Coefficient; Method and Applications,  
W85-02828 1806 5B

**JAYNES, D. B.**  
Comparison of Soil-Water Hysteresis Models,  
W85-04278 1808 2G  
Using Soil Physical Properties to Estimate Hydraulic Conductivity,  
W85-04345 1808 2G

**JAZRAWI, S. F.**  
Growth and Heavy Metal Removal by Klebsiella aerogenes at Different pH and Temperature,  
W85-01439 1803 6A

**JEAN, H.**  
Environmental Health Investigation of Copper Intoxication from a Public Water Supply,  
W85-05913 1811 5F

**JEDDELOH, G.**  
Seasonal Variation of Arsenic Concentration in Well Water in Lane County, Oregon,  
W85-02414 1805 5B

**JEFFRIES, C.**  
Contribution of Nitrification in the Water Column and Profundal Sediments to the Total Oxygen Deficit of the Hypolimnion of a Mesotrophic Lake (Grasmere, English Lake District),  
W85-03035 1807 2H

**JEFFRIES, M. O.**  
Isotope Geochemistry of Stratified Lake 'A', Ellesmere Island, N.W.T., Canada,  
W85-03195 1806 2H

**JEJE, L. K.**  
Runoff Response to Basin Parameters in Southwestern Nigeria,  
W85-01169 1803 2E

**JELINSKI, J. C.**  
Variation in pH During Summer Storms near the Continental Divide in Central Colorado, U.S.A.,  
W85-05766 1810 2K

**JENAB, S. A.**  
Parabolic Canal Design and Analysis,  
W85-01515 1803 8A

**JENG, T.-R.**  
Impact of Sewage Bypass on Newark Bay,  
W85-06362 1812 5C

**JENIK, J.**  
Xylem Water Flow in a Crack Willow Tree (*Salix fragilis* L.) in Relation to Diurnal Changes of Environment,  
W85-02900 1806 2I

**JENKERSON, C. G.**  
Seasonal Spatial and Temporal Phytoplankton Changes in a Shallow Eutrophic Lake,  
W85-02282 1805 2H

**JENKINS, A.**  
Process Based Model of Faecal Bacterial Levels in Upland Catchments,  
W85-01420 1803 5B

**JENKINS, D. I.**  
Impact of Priority Pollutants on Publicly Owned Treated Works Processes: A Literature Review,  
W85-05300 1810 5F

**JENKINS, M. C.**  
Coupling of Nitrification and Denitrification in Two Estuarine Sediments,  
W85-01333 1803 2L

**JENKINS, S. H.**  
Sources of Pollution of the Estuary of the River Nervion, Spain - A Case Study,  
W85-01396 1803 5B

**JENKINS, S. R.**  
Calculator Smooths Color Measurement Path,  
W85-03799 1808 7C  
Effective Manganese Removal Using Lime as an Additive,  
W85-03619 1807 5D

**JENKINS, W. O.**  
Operational River Water Quality Management,  
W85-01414 1803 5G

**JENNE, E. A.**  
Specific-Ion Electrode Determinations of Sulfide Preconcentrated from San Francisco Bay Waters,  
W85-03978 1808 2K

**JENNITT, J. C.**  
Removal of Metal Ions from Wastewater by Algae,  
W85-05426 1810 5D

**JENNINGS, A. A.**  
Instantaneous Equilibrium Approximation Analysis,  
W85-03784 1808 2F  
Multicomponent Solute Transport with Sorption and Soluble Complexation,  
W85-04171 1808 5B  
Multisolute Mass Transport with Chemical Interaction Kinetics,  
W85-05534 1810 5B

**JENNINGS, J. N.**  
Time-Series Models for the Prediction of Stream Flow in a Karst Drainage System,  
W85-06434 1812 2E

**JENQ, T.**  
Recommended Procedures for Evaluating Trade-Offs Between CBOD and NBOD in the Wasteload Allocations, (Draft),  
W85-06365 1812 6A

**JENQ, T.-R.**  
Phosphorus Management LP Model Case Study,  
W85-02977 1806 5G

**JENSEN, A.**  
Leavenworth, Washington Case: Environmental Concerns with a Water Treatment Plant Failure,  
W85-02723 1806 5B

**JENSEN, A. I.**  
Application of a Conventional Fishery Model for Assessment of Entrainment and Impingement Impact,  
W85-01118 1803 6G  
Assessing Environmental Impact on Mass Balance, Carrying Capacity and Growth of Exploited Populations,  
W85-03044 1806 8I

**JENSEN, J. R.**  
Nontidal Wetland Mapping in South Carolina Using Airborne Multispectral Scanner Data,  
W85-03301 1807 7B

**JENSEN, M.**  
Methods For Calculation of Annual and Extreme Overflow Events From Combined Sewer Systems,  
W85-01699 1804 2E  
Review of Rainfall Data Application for Design and Analysis,  
W85-01677 1804 2B

**JENNER, M.**  
Runoff Pattern and Peak Flows from Moving Block Rain Based on a Linear Time-Area Curve,  
W85-06647 1812 2E

**JHUA, J.**  
Staged Approach to Application of Rainfall Data to Urban Runoff Calculations,  
W85-01694 1804 2E

**JENSEN, R. E.**  
Mississippi Sound Wave-Hindcast Study: Main Text and Appendices A and B,  
W85-06912 1812 2E

**JENSEN, T. E.**  
Toxicological Response of the Alga *Anabaena flos-aqua* (Cyanophyceae) to Cadmium,  
W85-02197 1805 5C

**JENSON, D. T.**  
Probable Maximum Precipitation Estimates - United States Between the Continental Divide and the 103rd Meridian,  
W85-04226 1808 2B

**JEPPESEN, E.**  
Diurnal Variation in the Oxygen Uptake of River Sediments in Vitro by Use of Continuous Flow-Through Systems,  
W85-02069 1804 2E

**JEPSON, M. A.**  
Evaluation of the Potential Toxicity of Treated Bleached Kraft Mill Effluent To Striped Bass (*Morone saxatilis* Walbaum) Larvae Exposed Through Metamorphosis to the Juvenile Stage,  
W85-02908 1806 5C

**JERIE, P. H.**  
Effects of Regulated Water Deficits on Pear Tree Growth, Flowering, Fruit Growth, and Yield,  
W85-06204 1812 3F

**JEROME, J. H.**  
Spectral Attenuation and Irradiance in the Laurentian Great Lakes,  
W85-01757 1804 2H

**JESSUP, G. R.**  
Designing Gates for Small Hydro Schemes,  
W85-06130 1811 8C

**JESSUP, R. E.**  
Simulation of Nitrogen Dynamics in Flooded Soils,  
W85-03092 1806 2K

**JESTER, D. B. JR.**  
Generalized Model for Predicting Spawning Success of Fish in Reservoirs with Fluctuating Water Levels,  
W85-05878 1811 6G

**JEVTITCH, M.**  
Reverse-Osmosis Membrane for Testing Coal-Liquefaction Wastewater,  
W85-00284 1801 5D

**JEWSON, D. H.**  
Rates of Sediment-Water Exchange of Oxygen and Sediment Bioturbation in Lough Neagh, Northern Ireland,  
W85-02085 1804 2H

**JEYASEELAN, S.**  
Pilot-Scale Investigation of Particle Retention During Artificial Recharge,  
W85-06886 1812 4B

**JEZEK, K. C.**  
Rheology of Glacier Ice,  
W85-05112 1810 2C

**JEZIERSKA, B.**  
Effect of Temperature on Survival of Carp Fry, *Cyprinus carpio* L., in Acidic Water,  
W85-05623 1810 5C

**JHU, J.**  
Nitrogen Migration in Zhujiang River (in Chinese),  
W85-06010 1811 5B

## AUTHOR INDEX

JI, H.-Y.

**JI, H.-Y.**  
Actual and Potential Yield for Rainfed and Irrigated Wheat in China,  
W85-01057 1802 3F

Crop Water Requirements for Rainfed and Irrigated Wheat in China and Korea,  
W85-06687 1812 6D

**JI, X.**  
Plotting Positions for Pearson Type-III Distribution,  
W85-03079 1806 2E

**JIAJUN, H.**  
Study on Reuse of Water in a Woolen Mill,  
W85-03416 1810 5D

**JICKELLS, T. D.**  
Chemistry of Western Atlantic Precipitation at the Mid-Atlantic Coast and on Bermuda,  
W85-00520 1802 2K

Reef-Building Coral Skeletons as Chemical Pollution (Phosphorus) Indicators,  
W85-00200 1801 5A

Wet Deposition of Trace Metals to the Western Atlantic Ocean at the Mid-Atlantic Coast and on Bermuda,  
W85-04504 1809 5B

**JILANI, Y.**  
Comparative Study of the Climatological Estimation of Potential Evapotranspiration,  
W85-05095 1810 2D

**JIMENEZ, C.**  
Contaminant Dispersion in Some Time-Dependent Laminar Flows,  
W85-01518 1803 5B

**JIMENEZ-PEREZ, R.**  
Seismic Design Criteria for Buried Water Pipeline in Puerto Rico,  
W85-01821 1804 8A

**JINDAL, V. K.**  
Simultaneous Determination of Zinc and Chromate in Cooling Water by Differential Pulse Polarography,  
W85-04624 1809 5A

**JINKS, S. M.**  
Thermal Mortality Prediction Equations for Entraineable Striped Bass,  
W85-04682 1809 5C

**JIRKA, G. H.**  
Examination of Recent Field Data on Stream Reseration,  
W85-03808 1808 2E

**JIVAJIRAJAH, T.**  
Applications of the Log Pearson Type-3 Distribution in Hydrology,  
W85-02494 1805 2A

**JOCHIM, D. A.**  
Preparing the Data Base for a Water Network Analysis,  
W85-00740 1802 5F

**JODELLAH, A. M.**  
Removing Humic Substances by Chemical Treatment and Adsorption,  
W85-06492 1812 5F

**JOH, H.**  
Inorganic Nutrients Occurring in the Oxygen-deficient Bottom Water of Osaka Bay,  
W85-04606 1809 2K

**JOHANSEN, N. B.**  
Methods For Calculation of Annual and Extreme Overflow Events From Combined Sewer Systems,  
W85-01699 1804 2E

Review of Rainfall Data Application for Design and Analysis,  
W85-01677 1804 2B

Staged Approach to Application of Rainfall Data to Urban Runoff Calculations,  
W85-01694 1804 2E

**JOHANSEN, P. H.**  
Mortality of Early Life Stages of Largemouth Bass, *Micropterus salmoides* Due to Pentachlorophenol Exposure,  
W85-05014 1810 5C

**JOHANSON, R. C.**  
New Mathematical Modeling System,  
W85-06767 1812 2A

**JOHANSSON, K.**  
Mercury in Swedish Lakes - Its Regional Distribution and Causes,  
W85-00087 1801 5B

**JOHN, D. M.**  
Observations on the Phytobenthos of the Freshwater Thames; I. The Environment, Floristic Composition and Distribution of the Macrophytes (Principally Macroalgae),  
W85-06398 1812 2H

**JOHNS, E. L.**  
Comparison of Equations Used for Estimating Agricultural Crop Evapotranspiration with Field Research,  
W85-05131 1810 2D

**JOHNSON, A.**  
Nisqually Glacier, Mount Rainier, Washington, 1857-1979: A Summary of the Long-Term Observations and a Comprehensive Bibliography,  
W85-00039 1801 2C

**JOHNSON, A. C.**  
Appearance of PCBs in the Surficial Sediments of Casco Bay, Maine,  
W85-04382 1808 5B

**JOHNSON, A. H.**  
Spruce Decline in the Northern Appalachians: Evaluating Acid Deposition as a Possible Cause,  
W85-04236 1808 5A

**JOHNSON, B. E.**  
Stored Available Soil Water and the Fallow/Recrop Decision-Critical Level Approach,  
W85-02874 1806 2I

**JOHNSON, B. T.**  
Environmental and Chemical Factors Influencing the Biodegradation of Phthalic Acid Esters in Freshwater Sediments,  
W85-02743 1806 5B

**JOHNSON, C.**  
Rate of Kepone and Mirex in the Aquatic Environment,  
W85-00160 1801 5B

**JOHNSON, C.**  
Impact of an Oil Field Effluent on Microbial Activities in a Wyoming River,  
W85-01640 1804 5C

**JOHNSON, C.**  
Xenobiotic Perturbation of Microbial Growth as Measured by CO<sub>2</sub> Uptake, in Aquatic Heterotrophic Bacteria,  
W85-02885 1806 5A

**JOHNSON, C.**  
Spectral Characteristics of the Global Moisture Distribution and Their Importance in Objective Analysis of Moisture for NWP Models,  
W85-06958 1812 2D

**JOHNSON, C. G.**  
Small Town Conquers Wastewater Tribulations,  
W85-03276 1807 5D

**JOHNSON, C. W.**  
Rangeland Erosion Measurements for the USLE,  
W85-04728 1809 2J

Testing of the SPUR Hydrology Component on Rangeland Watersheds in Southwest Idaho,  
W85-03395 1807 2E

**JOHNSON, D.**  
Development of a Comprehensive Sampling Programme for Yorkshire Water Authority,  
W85-03885 1808 5F

**JOHNSON, D. W.**  
Effect of Soil Processes on the Acidification of Water by Acid Deposition,  
W85-06614 1812 5B

Effects of Municipal Sewage Sludge-Cake on Nitrogen and Phosphorus Distributions in a Pine Plantation,  
W85-05387 1810 5E

**JOHNSON, H. P.**  
Determination of Crop Production Loss Due to Inadequate Drainage in a Large Watershed,  
W85-02987 1806 6B

Runoff and Sediment Transport Within and From Small Agricultural Watersheds,  
W85-04734 1809 2J

Sensitivity Analysis of a Drainage Simulation Model,  
W85-01373 1803 2A

Simulated Effects of Fertilizer Management on Nitrate Loss with Tile Drainage Water for Continuous Corn,  
W85-04739 1809 6G

**JOHNSON, J. C.**  
Wedge-Wire Intake Screens for Shallow Sand-Bed River,  
W85-02268 1805 8A

**JOHNSON, J. D.**  
Comparison of Methods of Enumerating Coliforms After UV Disinfection,  
W85-02938 1806 5A

Reaction Products of Aquatic Humic Substances with Chlorine,  
W85-01206 1803 5F

**JOHNSON, J. K.**  
Survey for Viruses from Fresh Water That Infect a Eucaryotic Chlorella-Like Green Alga,  
W85-07138 1812 2H

**JOHNSON, K. H.**  
Ground-Water/Subsidence Model: A Management Tool,  
W85-01568 1803 2F

**JOHNSON, L. A.**  
Water and Pesticide Volatilization from a Waste Disposal Pit,  
W85-03389 1807 5B

**JOHNSON, M.**  
Nickel Uptake and Loss in the Bivalves *Crassostrea virginica* and *Mytilus edulis*,  
W85-02212 1805 5A

**JOHNSON, M. D.**  
Soil Moisture Regimes of Three Conservation Tillage Systems,  
W85-04737 1809 2G

**JOHNSON, M. J.**  
Cost-Effective Management - Revenue and Technical Monitoring,  
W85-04519 1809 6B

Ground Water in North Monterey County, California, 1980,  
W85-00851 1802 2F

**JOHNSON, M. S.**  
Effects of Gel-forming Polyacrylamides on Moisture Storage in Sandy Soils,  
W85-03797 1808 3B

## AUTHOR INDEX

**JONES, J. G.**

**JOHNSON, P. C.**  
Behaviour of Phosphate, Nitrate, Chloride and Hardness in Twelve Welsh Rivers, W85-02435 1805 5G

**JOHNSON, P. K.**  
Use of Volatile Chloroorganics as a Measure of the Rehabilitation of the St. Louis River and Bay, W85-06867 1812 5A

**JOHNSON, R.**  
Rocky Mountain Acidification Study, W85-06359 1812 5C

**JOHNSON, R. A.**  
Elution of Enteric Viruses from Mississippi Estuarine Sediments with Lecithin-Supplemented Eluents, W85-02934 1806 5A

Recreational Impacts on Colorado River Beaches in Glen Canyon, Arizona, W85-02298 1805 5C

Use of Coagulants to Treat Seafood Processing Wastewaters, W85-02578 1805 5D

**JOHNSON, R. C. JR.**  
Permeability of Grout Seals Surrounding Thermoplastic Well Casing, W85-00321 1801 8F

**JOHNSON, R. J.**  
Cost-Effective Targeting of Agricultural Non-point-Source Pollution Controls, W85-05960 1811 5G

**JOHNSON, R. L.**  
Migration of Chlorophenolic Compounds at the Chemical Waste Disposal Site at Alkali Lake, Oregon - I. Site Description and Ground-Water Flow, W85-02693 1805 5B

**JOHNSON, R. W.**  
Pollution Control by Effluent Charges: It Works in the Federal Republic of Germany, Why Not in the U.S., W85-06534 1812 5G

**JOHNSON, S. H. III**  
Economics of Changes in Irrigation Management in Pakistan: An Integrative Modeling Approach, W85-03029 1806 3F

Physical and Economic Impacts of Sedimentation on Fishing Activities; Nam Pong Basin, Northeast Thailand, W85-04448 1809 5C

**JOHNSON, T. C.**  
Effects of Bottom Currents and Fish on Sedimentation in a Deep-water, Lacustrine Environment, W85-04309 1808 2J

Side-Scan Targets in Lake Superior - Evidence for Bedforms and Sediment Transport, W85-01277 1803 2J

**JOHNSON, T. W. D.**  
Collapse of the Lake Whitefish (*Coregonus clupeaformis*) Fishery in Southern Indian Lake, Manitoba, following Lake Impoundment and River Diversion, W85-00641 1802 6G

**JOHNSON, W.**  
Nitrogen and Phosphorus Concentrations within North Inlet, South Carolina - Speculation as to Sources and Sinks, W85-02657 1805 2L

**JOHNSON, W. K.**  
Significance of Location in Computing Flood Damage, W85-04244 1808 6F

**JOHNSON, W. M.**  
Construction of Riding Mill Weir, W85-06172 1811 8A

**JOHNSTON, H. M.**  
Diffusion of Nonreactive and Reactive Solutes through Fine-Grained Barrier Materials, W85-03427 1807 5E

**JOHNSTON, L. M.**  
Neutralization of Acid Runoff by Groundwater Discharge to Streams in Canadian Precambrian Shield Watersheds, W85-04268 1808 2K

**JOHNSTON, R.**  
Waste Treatment in an Automotive Component Complex, W85-05246 1810 5D

**JOHNSTON, R. H.**  
Saltwater-Freshwater Interface in the Tertiary Limestone Aquifer, Southeast Atlantic Outer-Continental Shelf of the U.S.A., W85-00020 1801 2F

Use of a Digital Model to Evaluate Hydrogeologic Controls on Groundwater Flow in a Fractured Rock Aquifer at Niagara Falls, New York, U.S.A., W85-04273 1808 2F

**JOHNSTON, R. S.**  
Municipal Demand for Water in Kuwait: Methodological Issues and Empirical Results, W85-06497 1812 6D

**JOHNSTON, W. H.**  
Floods of August 7-8, 1979, in Chautauqua County, New York, with Hydraulic Analysis of Canadaway Creek in the Village of Fredonia, W85-02051 1804 2E

**JOHSTONE, D. L.**  
Oxidation of Organic Compounds in Solvent-Refined Coal II Wastewater Via Ultraviolet Irradiation, W85-05273 1810 5D

Removal and Inactivation of Bacteria During Alum Treatment of a Lake, W85-02602 1805 5G

**JOHNSTONE, D. W. M.**  
Oxidation Ditches - Principles and Innovations, W85-03721 1807 5D

**JOHNSTONE, L.**  
Effect of Reservoir Induced Circulation on the Water Quality of Recreational Freshwater Embayments, W85-06317 1812 5B

**JOLIFFE, I. B.**  
Computation of Dynamic Waves in Channel Networks, W85-03007 1806 8B

**JOLLER, T.**  
Effects of Internal Measures in Baldeggersee: Forced-Circulation and Oxygenation of the Hypolimnion (Die Auswirkungen von internen Massnahmen im Baldeggersee: Zwangszirkulation und Sauerstoffbegasung des Hypolimnions), W85-04559 1809 5G

**JOLLER, TH.**  
Turbulent Mixing in the Hypolimnion of Baldeggersee (Switzerland) Traced by Natural Radon-222, W85-02221 1805 2H

**JOANASSON, I. R.**  
Metal Accumulation by Bryophytes in Some Zinc-Rich Blanket Bogs, Selwyn Mountains, Yukon Territory, W85-00952 1802 2L

**JOANASSON, P. M.**  
Decline of Zoobenthos Through Five Decades of Eutrophication in Lake Esrom, W85-04541 1809 5C

Oxygen Demand and Long Term Changes of Profundal Zoobenthos, W85-02770 1806 5C

**JONCAS, M.**  
Detection of False-Positives Among Total and Fecal Coliform Counts by Factorial Analysis of Correspondence, W85-04265 1808 5A

**JONES, A. J.**  
In Situ Estimation of Hydraulic Conductivity Using Simplified Methods, W85-03560 1807 2G

**JONES, B. F.**  
Geochemistry of Great Salt Lake, Utah I: Hydrochemistry Since 1850, W85-05761 1810 2K

**JONES, C. A.**  
Modeling Approach to Determining the Relationship between Erosion and Soil Productivity, W85-03374 1807 2J

**JONES, D. D.**  
Adaptation of an Industrial Activated Sludge Process to the Removal of Cyanide, W85-05418 1810 5D

Biological Treatment of High-Strength Coke-Plant Wastewater, W85-05440 1810 5D

**JONES, D. E. JR.**  
Essential Urban Detention Ponding Considerations, W85-03062 1806 4A

**JONES, D. G.**  
Distribution of 137-Cs in Surface Intertidal Sediments from the Solway Firth, W85-00201 1801 5B

**JONES, D. M. A.**  
Frequency Distributions for Durations and Volumes of Rainfalls in the Eastern United States in Relation to Acidic Precipitation, W85-02926 1806 2B

Some Statistics of Instantaneous Precipitation, W85-03850 1808 2B

**JONES, F.**  
Destruction of Pathogens and Parasites in Sewage Sludge by Chemical Means, W85-04592 1809 5E

Health and Amenity Aspects of Surface Waters, W85-04457 1809 5G

**JONES, F. A.**  
Pesticides in Groundwater Beneath the Central Sand Plain of Wisconsin, W85-02025 1804 5B

**JONES, G. B.**  
Control of Nuisance Aquatic Plants With Burlap Screen, W85-04053 1808 4A

**JONES, H. G.**  
Physical and Chemical Evolution of Snowpacks on the Canadian Shield (Winter 1979-1980), W85-05659 1810 2C

**JONES, H. N.**  
Empingham Dam - Design, Construction and Performance, W85-06174 1812 8D

**JONES, J. E.**  
Essential Urban Detention Ponding Considerations, W85-03062 1806 4A

**JONES, J. G.**  
Automated Water Laboratory - What Benefit to the Consumer, W85-02011 1804 7B

## AUTHOR INDEX

### JONES, J. G.

Interaction of Acetogens And Methanogens in Anerobic Freshwater Sediments, W85-06146 1811 2H

JONES, J. N. Matara Water Supply Project in Sri Lanka, W85-02013 1804 5F

JONES, J. R. Factors Affecting the Relation Between Phosphorus and Chlorophyll a in Midwestern Reservoirs, W85-00889 1802 2H

Factors Related to Algal Biomass in Missouri Ozark Streams, W85-05667 1810 2H

Sources of Variability in Phosphorus and Chlorophyll and Their Effects on Use of Lake Survey Data, W85-01383 1803 2H

Stream-Watershed Relations in the Missouri Ozark Plateau Province, W85-06620 1812 6G

JONES, J. S. Comparison of Prediction Equations for Bridge Pier and Abutment Scour, W85-06113 1811 2J

JONES, J. W. Diurnal Changes in the Instantaneous Water Use Efficiency of a Soybean Crop, W85-06203 1812 2D

Simulation of Possible Adaptive Mechanisms in Crops Subjected to Water Stress, W85-05170 1810 2I

JONES, K. C. Silver and Other Metals in Some Aquatic Bryophytes from Streams in the Lead Mining District of Mid-Wales, Great Britain, W85-05702 1810 5B

JONES, L. Subchronic Toxicity of Chlorine Dioxide and Related Compounds in Drinking Water in the Nonhuman Primate, W85-01204 1803 5F

JONES, M. B. Diurnal Course of Plant Water Potential, Stomatal Conductance and Transpiration in a Papyrus (*Cyperus papyrus* L.) Canopy, W85-02341 1805 2I

JONES, M. J. Algebraic Equations for Solute Movement During Adsorption, W85-02369 1805 2G

JONES, M. M. Attenuation of Chemical Elements in Acidic Leachates from Coal Mineral Wastes by Soils, W85-04600 1809 5B

JONES, M. S. Treatment for Removal of Heavy Metal and Oil from a Piston Ring Manufacturing Waste, W85-05238 1810 5D

JONES, N. V. River Hull, a Northern English Chalk Stream: The Zonation of the Macro-Invertebrate Fauna with Reference to Physical and Chemical Features, W85-00627 1802 2H

JONES, O. R. Runoff, Soil, and Nutrient Losses from Range-land and Dry-Farmed Cropland in the Southern High Plains, W85-05970 1811 5B

JONES, P. A. Chlorophenols and Their Impurities in the Canadian Environment: 1983 Supplement, W85-04941 1809 5B

JONES, P. D. Dissolved and Suspended Mercury Species in the Wabigoon River (Ontario, Canada): Seasonal and Regional Variations, W85-02091 1804 5B

Influences of Precipitation Changes and Direct CO<sub>2</sub> Effects on Streamflow, W85-05855 1811 2A

JONES, P. G. W. Water Quality Studies Around the Sewage Sludge Dumping Site in Liverpool Bay, W85-02290 1805 5B

JONES, R. Heavy Metals in the Sediments of Llangorse Lake, Wales Since Celtic-Roman Times, W85-05625 1810 5B

JONES, R. A. Fishable Waters Everywhere: An Appropriate Goal, W85-01850 1804 6B

Is Hazardous Waste Disposal in Clay Vaults Safe, W85-03617 1807 5G

Summary of US OECD Eutrophication Study. Results and Their Application to Water Quality Management, W85-02625 1805 5C

JONES, R. C. Application of a Primary Production Model to Epiphytic Algae in a Shallow, Eutrophic Lake, W85-03730 1807 2H

Effects of Urban Stormwater Runoff on Reservoir Phytoplankton, W85-05633 1810 5C

Phytoplankton as a Factor in the Decline of the Submerged Macrophyte *Myriophyllum spicatum* L. in Lake Wingra, Wisconsin, U.S.A., W85-00999 1802 2H

JONES, R. D. Riverflow Reconstructions and Their Use, Part 2, W85-00758 1802 2E

JONES, R. I. Hypolimnetic Phosphorus Retrieval by Diel Vertical Migrations of Lake Phytoplankton, W85-02286 1805 2H

Light Penetration and Some Related Characteristics in Small Forest Lakes in Southern Finland, W85-04542 1809 2H

JONES, R. M. Controlling Attached Blue-Green Algae with Copper Sulfate, W85-00703 1802 5G

JONES, S. D. Dissolved Iodine Species in a British Freshwater System, W85-02788 1806 2H

JONES, T. L. Weighing Lysimeters for Long-Term Water Balance Investigations at Remote Sites, W85-02879 1806 2G

JONES, T. W. Uptake and Phytotoxicity of Soil-Sorbed Atrazine for the Submerged Aquatic Plant, *Potamogeton perfoliatus* L., W85-02205 1805 5C

JONES, W. K. Error Analysis of Airborne Gamma Radiation Soil Moisture Measurements, W85-01075 1802 2G

JONES, W. L. Airborne Microwave Measurements of the Southern Greenland Ice Sheet, W85-04962 1809 2C

JONKHEER, G. J. Carbon Flow Across the Sediment-Water Interface in Lake Vechten, The Netherlands, W85-02066 1804 2H

JONSSON, B. M. Advanced Water Recycling System Required for New South African Mill, W85-05777 1810 3C

JONSSON, J. A. Ion Chromatographic Determination of Nitrate and Sulfate in Natural Waters Containing Humic Substances, W85-02832 1806 2K

JOP, K. Concentrations of Cadmium and Lead in the Body of Some Macrobenthos Species from Five Streams of Southern Poland, W85-02509 1805 5C

JORAJURIA, A. Evolution of the Community at a Station Exposed to Sewage (Marseille-Cortiou) (Evolution Du Peuplement D'une Station Soumise A Des Apports D'Eaux D'Egout (Marseille-Cortiou)), W85-04709 1809 5C

JORDAN, P. R. Assessment of Cumulative Impacts of Coal Mining on the Hydrology in Part of the Powder River Structural Basin, Wyoming—A Progress Report, W85-00847 1802 4C

JORDAN, P. W. Thermal and Water Relations of Roots of Desert Succulents, W85-03698 1807 2I

JORDAN, R. A. Oligohaline Benthic Invertebrate Communities at Two Chesapeake Bay Power Plants, W85-02994 1806 5C

Selective Effects of Phytoplankton Entrainment at the Surry Power Plant, James River, Virginia, W85-00987 1802 5C

JORDAN, T. E. Sedimentation and Resuspension in a New England Salt Marsh, W85-00405 1801 2J

JORDAN, T. R. Photogrammetric Technique for Measuring Soil Erosion, W85-01323 1803 7B

JORDON, J. Use of Isotope Methods in Hydrogeology, W85-04109 1808 2F

JORGENSEN, D. G. Regional Study of the Dakota Aquifer (Darton's Dakota Revisited), W85-00320 1801 2F

JORGENSEN, G. H. Hydrological Data-Model Work in Greenland, W85-06639 1812 2A

JORGENSEN, N. O. G. Diel Variation in Concentration, Assimilation and Respiration of Dissolved Free Amino Acids in Relation to Planktonic Primary and Secondary Production in Two Eutrophic Lakes, W85-00994 1802 2H

JORGENSEN, O. H. Water Quality Planning in Denmark, W85-01424 1803 5G

JORGENSEN, S. E. Comparison of a Simple and a Complex Sediment Phosphorus Model, W85-01303 1803 2H

## AUTHOR INDEX

KADEN, W.

**JORGENSEN, H. T.**  
Desertification in the United States, Status and Issues, W85-05125 1810 2D

**JORJANI, H.**  
Evaluating Subsurface Drainage Benefit Estimation from Short-Term Cross-Section Data, W85-06077 1811 4A

**JORY, L. T.**  
Underground Design at Andekaleka Hydroelectric Development, W85-06043 1811 8A

**JOSH, S. V.**  
Cellulose Triacetate Membranes for Seawater Desalination, W85-07096 1812 3A

**JOSHI, A.**  
Species Composition, Temporal Abundance and Community Structure of Zooplankton in Lake Sat Tal (U.P.), India, W85-06401 1812 2H

**JOSHI, S. R.**  
Dose Equivalent Commitments from Fallout Radionuclides in the Open Waters of the Great Lakes, 1973-1981, W85-05103 1810 5B

Fate of Pentachlorophenol in the Bay of Quinte, Lake Ontario, W85-00925 1802 5B

Recent Sedimentation Rates and 210Pb Fluxes in Georgian Bay and Lake Huron, W85-06547 1812 2J

**JOSHI, S. V.**  
Cellulose Triacetate Membranes for Seawater Desalination, W85-05115 1810 3A

**JOUBERT, F. DU P.**  
Coarse Fraction of Soils: The Role it Plays in Plant Nutrition, Liming and Irrigation, W85-04823 1809 2G

**JOUBERT, P. N.**  
Behaviour of a Converging-Channel Breakwater; Theory and Experiment, W85-00713 1802 8B

**JOUSSOT-DUBIEN, J.**  
Photochemistry of Natural Waters, W85-03660 1807 2K

**JOVANOVIC, M.**  
Anaerobic Treatment of Thermal Sludge Conditioning Liquor with Fixed-Film and Suspended-Growth Processes, W85-05287 1810 5D

**JOWETT, I.**  
Sedimentation in New Zealand Hydroelectric Schemes, W85-04445 1809 2J

**JOWITT, P. W.**  
Operational River Water Quality Management, W85-01414 1803 5G

Risk Analysis, Fuzzy Logic and River Basin Management, W85-01430 1803 5G

**JOYCE, T. W.**  
Investigation of the Potential of an Enzymatic Treatment of Pulp and Paper Mill Effluent to Facilitate Decolorization by Lime Precipitation, W85-05402 1810 5D

**JUAREZ-BADILLO, E.**  
Stresses and Displacements in an Aquifer due to Seepage Forces (One-Dimensional Case), W85-02489 1805 2F

**JUDAY, R. E.**  
Effect of Ash Fallout on Water Quality in Western Montana, W85-06325 1812 5C

**JUDD, M. J.**  
Water Use by Tamarillos (*Cyphomandra betacea*) within a Sheltered Orchard Environment, W85-06195 1812 2I

**JUINA, J. G.**  
Persistent Blooms of Surf Diatoms (Bacillariophyceae) along the Pacific Coast, USA. III. Relationships Between Diatom Populations and Environmental Variables along Oregon and Washington Beaches (1977 and 1978), W85-03839 1808 2L

**JULIEN, P.**  
Interaction between Discharge and Populations of Parr (*Salmo salar*) of the Matamec River, Quebec (Interaction Entre le Débit et les Populations de Tacons (*Salmo salar*) de la Rivière Matamec, Québec), W85-01492 1803 2H

**JUMARS, P. A.**  
Effects of Sediment Transport on Deposit Feeding: Scaling Arguments, W85-03875 1808 2J

**JUNG, R. F.**  
Modelling the Transport of Reacting Chemical Contaminants in Natural Streams, W85-00778 1802 5B

**JUNG, Y.-S.**  
Differences in Water Uptake Rates of Soybean Roots Associated with Time and Depth, W85-00218 1801 2I

**JUNK, G. A.**  
Degradation of Pesticides in Controlled Water-Soil Systems, W85-06780 1812 5E

Gas Chromatography/Mass Spectrometry Determination of Water-Soluble Primary Amines as Their Pentafluorobenzaldehyde Imines, W85-06255 1812 5A

**JUNK, W. J.**  
Development of Aquatic Macrophytes in Curua-Una, the First Man-Made Lake in Central Amazonia (Zur Entwicklung Aquatischer Makrophyten in Curua-Una, Dem Ersten Staausee in Zentralamazonien), W85-00766 1802 2H

**JUNKINS, B.**  
Effect of Chlorination on Antibiotic Resistance Profiles of Sewage-Related Bacteria, W85-02139 1804 5D

**JUNKINS, E.**  
Recovery of Hexachlorocyclohexane Isomers in Fortified Water Samples, W85-06601 1812 5A

**JUNKINS, E. A.**  
Survey of the Use of Activated Carbon Water Filters in Canadian Homes, W85-06102 1811 5F

**JUNKINS, R.**  
Activated Sludge Process: Fundamentals of Operation, W85-06932 1812 5D

Case History: Pretreatment of Textile Wastewater, W85-05239 1810 5D

Case History: Treatment of Chemical Plant Wastewater, W85-05433 1810 5D

**JUNNA, J.**  
Removal of Organic and Toxic Substances From Debarking and Kraft Pulp Bleaching Effluents by Activated Sludge Treatment, W85-05061 1810 5D

**JUON, H.**  
Plant Growth Potential of the River Rhine and its Tributaries from Lake Constance to Basel (1978/79) (Die pflanzliche Produktionskraft des Rheins und seiner Zuflüsse vom Bodensee-Untersee bis Basel (1978/79)), W85-01274 1803 5B

**JURELL, G.**  
Investigation into the Failure of a Prestressed Rock Anchor, W85-04952 1809 8G

**JURKOVIC, A. A.**  
Bacterial Activity in Sediments of Lakes Receiving Acid Precipitation, W85-03047 1806 2H

**JURKOWSKA, J.**  
Changes of Phytoplankton Biomass and Production in a Field Lake and Draining Channel, W85-06856 1812 2H

**JURY, K. M.**  
Development and Use of a Theoretical Mathematical Model for the Medway Estuary, W85-04450 1809 2L

**JURY, W. A.**  
Comparison of Methods Used to Estimate Evapotranspiration for Leaching Control, W85-05926 1811 7B

**JUSTIC, D.**  
Effects of Ecological Perturbations on Diatom Dynamics in the Model of Lake Jezero, W85-04901 1809 2H

Model of Diatom Dynamics in the Epilimnion of Lake Jezero on the Island of Krk, W85-04900 1809 2H

**JUSTICE, C. A.**  
Biofilm Fouling of RO Membranes - Its Nature and Effect on Treatment of Water for Reuse, W85-00712 1802 5D

**JUTTNER, F.**  
Evidence of Ectocarpene and Dictyopterenes A and C in the Water of a Freshwater Lake, W85-03879 1808 2H

Organic Activators and Inhibitors of Algal Growth in Water of a Eutrophic Shallow Lake, W85-04055 1808 2H

Threshold Odour Concentrations of Odorous Algal Metabolites Occurring in Lake Water, W85-02389 1805 5F

**KAA, W.**  
Spatial and Temporal Concentration Gradients of PAH (Fluoranthene, Benzo(a)pyrene), gamma-BHC and 2,4-D in Samples of Soil, Soil Water and Ground Water in an Agricultural Research Area, W85-03289 1807 5B

**KAAKINEN, J. W.**  
Cation Exchange Pretreatment Studies for High Recovery - Yuma Desalting Plant, W85-04223 1808 3A

**KACHANOSKI, R. G.**  
Evaluation of the Erosion Index for the Prairies, W85-06153 1811 2J

**KACZMAREK, S. A.**  
EDS Coal Liquefaction Wastewaters: Zero-Discharge Treatability Studies, W85-05435 1810 5D

**KADELEC, J. A.**  
Marsh Plant Establishment on Newly Flooded Salt Flats, W85-03811 1808 4A

**KADEN, W.**  
Rehabilitation of the Bituminous Slope Lining at the Ohra Dam (Sanierungsarbeiten an der Bituminosen Aubenhaut der Ohra-Talsperre), W85-03456 1807 8A

## AUTHOR INDEX

**KADLEC, J. A.**

**KADLEC, J. A.**  
Fire and Herbivory in a Great Salt Lake Marsh,  
W85-04825 1809 2L

Predictions of Vegetation Change Following  
Fire in a Great Salt Lake Marsh,  
W85-05608 1810 2H

**KADLEC, R. H.**  
Sedimentation and Sediment Accretion in Michigan  
Coastal Wetlands (U.S.A.),  
W85-01013 1802 2J

**KADOTA, H.**  
Studies on a Freshwater Red Tide in Lake Biwa - I. Changes in the Distribution of Phytoplankton and Nutrients (in Japanese),  
W85-00541 1802 5C

Studies on a Freshwater Red Tide in Lake Biwa - II. Relation between Occurrence of Red Tide and Environmental Factors (in Japanese),  
W85-00542 1802 2H

**KAEDING, J.**  
Optimization of the Activated Sludge Process Through Minimizing the Volume of Activated Sludge and Final Clarification Tanks (Optimierung des Belebungsverfahrens durch Minimierung des Volumens von Belebungs- und Nachklärbecken),  
W85-06656 1812 5D

**KEAWYEN, S.**  
Simulation of Channel Steepening in the Marala-Ravi Link Canal,  
W85-06580 1812 2J

**KAFRI, U.**  
Current Subsurface Seawater Intrusion to Base Levels Below Sea Level,  
W85-06161 1811 2F

Hydrogeochemistry of Continental Brackish Waters in the Southern Coastal Plain, Israel,  
W85-01095 1802 2K

**KAGANOVICH, A. B.**  
Optimization of the Filling and Drawdown Regimes of a Regulating Reservoir of the Kuban' Cascade,  
W85-00485 1801 3B

**KAGAWA, H.**  
Phosphorus Budgets of Indoor Reservoir Models Varying in Sediment Composition and Water Inlet Site,  
W85-02620 1805 2H

**KAHANE, S. W.**  
Tightening Regulations for Hazardous Waste Management: Mandates and Compliance Strategies,  
W85-05768 1810 6E

**KAHANGIRE, P.**  
Analysis and Computerized Model of the Automatic Hydraulic Ram Pump,  
W85-05456 1810 8C

**KAHN, B.**  
Annual Report of Georgia Water Resources Research Institute Activities under Public Law 95-467 in Fiscal Year 1983,  
W85-06320 1812 9D

**KAHWA, I. A.**  
Heavy Metals in the Lower Mississippi River,  
W85-01744 1804 5B

**KAIM-MALKA, R. A.**  
Histological Alterations Observed in *Idotea balthica basteri* Audouin 1827 (Crustacea, Isopoda) Exposed to the Chronic Effect of Non-Ionic Detergents,  
W85-01312 1803 5C

**KAINRATH, P.**  
Pilot Scale Studies on Enhanced Biological Phosphorus Removal in an Activated Sludge

Treatment Plant with Nitrification and Predenitrification (Untersuchungen über die biologische Phosphor-Elimination in einer halbtechnischen Versuchsanlage mit weitgehender Nitrifikation und vorgeschalteter Denitrifikation),  
W85-05042 1810 5D

**KAISER, E. H.**  
Subsidy and Tax Effects of Controlling Stream Sedimentation in South Carolina,  
W85-05966 1811 4D

**KAISER, E. J.**  
Drinking Water Supplies, Protection Through Watershed Management,  
W85-06934 1812 5G

**KAISER, K. L. E.**  
Tracking River Plumes with Volatile Halocarbon Contaminants: The Niagara River-Lake Ontario Example,  
W85-04715 1809 5B

Use of Fish Cell Cultures as an Indication of Contaminant Toxicity to Fish,  
W85-06440 1812 5A

**KAISSEOUN, M.**  
Empirical Contribution to the Study of Swell Propagation in a Breakwater (Contribution Empirique à l'Etude de la Propagation de la Houle à l'intérieur des Digue),  
W85-03589 1807 8B

**KAJIHARA, M.**  
Distribution of River Discharged Suspended Matter in Coastal Water (in Japanese),  
W85-03608 1807 2J

**KAJIKAWA, M.**  
Observation of Ice Pellets,  
W85-04025 1808 2C

**KAKELA, P.**  
Low-Head Hydropower for Local Use,  
W85-04620 1809 6B

**KAKII, K.**  
Some Properties of Mucilage Polysaccharides Extracted from Sewage Activated Sludge,  
W85-04252 1808 5D

**KAKINUMA, T.**  
Approximate Solution of Fresh Water-Salt Water Interface in Confined Aquifers (in Japanese),  
W85-02252 1805 2F

Regional Unsteady Fresh Water-Salt Water Interface in Confined Aquifers (in Japanese),  
W85-02256 1805 2F

Studies on the Seawater Intrusion in Coastal Groundwater; II. Groundwater at the Mouth of the Kiki River (in Japanese),  
W85-00543 1802 2F

**KAL, B. F. M.**  
Loosdrecht Lakes Restoration Project: Hydrology and Physico-Chemical Characteristics of the Lakes,  
W85-04545 1809 2H

**KALAB, M.**  
Improved Recovery of Fecal Coliforms from the Ottawa River by Membrane Filters in the Presence of Food Debris,  
W85-05741 1810 5A

**KALBSKOPF, K. H.**  
Treatment of Surplus Activated Sludge from the Emscher Mouth Treatment Plant, F.R.G.,  
W85-04001 1808 5E

**KALCEVA, R.**  
Optimization Model for the Economic Control of Reservoir Eutrophication,  
W85-01112 1802 2H

**KALDENHOFF, H.**

Determination of Spreading of Nutritive Salts in Quasi-Stagnant Waters by Using Lithium (Chloride) as Tracer and Continuous Measurement of Water-Quality Parameters (Die Bestimmung von Ausbreitungsvorgangen von Nahrsalzen in quasi stehenden Gewässern unter Verwendung des Tracers Lithium (Chlorid) und die kontinuierliche Messung von Wassergüteparametern),  
W85-04810 1809 5A

**KALENOV, V. P.**

Hydrochemical Methods in Investigation of Seepage in the Foundation of Structures of the Irkutsk Hydroelectric Station,  
W85-00450 1801 8A

**KALF, J.**

Dispersal of Zaire River Suspended Matter in the Estuary and the Angola Basin,  
W85-03674 1807 2L

**KALFF, J.**

Method for the Analysis of Total Nitrogen in Natural Waters,  
W85-00896 1802 5A

**KALININ, N. I.**

Artificial Seismicity, Conditions and Possible Mechanism of Occurrence of Dam Earthquakes, W85-00466 1801 6G

**KALININ, V. B.**

Redox State and Seasonal Toxicity of Natural Water,  
W85-04363 1808 5B

**KALINOWSKI, T. W.**

Health and Environmental Aspects of Setting Cleanup Criteria,  
W85-06452 1812 5G

**KALKANI, E. C.**

Steady Flow Calculations for Cutoff Wall Depth Variation,  
W85-02258 1805 8D

**KALLEND, A. S.**

Acidity of Rain in Europe,  
W85-00245 1801 2K

**KALLIO, O.**

Taman Anaerobic Process - For Wastewater from Mechanical Pulp and Paper Production, W85-07010 1812 5D

**KALLMANN, R.**

Asynchronous Generator; An Alternative to the Synchronous Generator for Small Hydroelectric Power Stations with Output up to 20,000 kW (Der Asynchrongenerator; Eine Alternative zum Synchrongenerator für kleine Wasserkraftanlagen mit einer Leistung bis 20000 kW),  
W85-01858 1804 8C

**KALLSEN, C. E.**

Water-Use Production Functions of Selected Agronomic Crops in Northwestern New Mexico, Phase II,  
W85-01817 1804 3F

**KALPANA,**

Alachlor Toxicity to a Freshwater Teleost Clarias batrachus,  
W85-04885 1809 5C

**KALRA, Y. P.**

Predicting Solute Yields in the Natural Waters of a Subalpine System in Alberta, Canada,  
W85-00876 1802 2K

**KALUSTYAN, E. S.**

Reliability of Rock Foundations of Concrete Dams and Some Recommendations on Their Assessment,  
W85-05989 1811 8E

**KAMAT DALAL, V. N.**

Behaviour of Boron, Calcium and Magnesium in a Polluted Estuary,  
W85-00668 1802 5B

## AUTHOR INDEX

KARICKHOFF, S. W.

**KAMATANI, A.**  
Behaviour of Dissolved Silica During the Mixing of River and Sea Waters in Tokyo Bay, W85-03632 1807 2H

**KAMB, B.**  
Glacier Surge Mechanism: 1982-1983 Surge of Variegated Glacier, Alaska, W85-04472 1809 2C

**KAMER, M. A.**  
Steam Stripping of Coal Liquefaction Waste for Ammonia and Sulfide Removal, W85-05268 1810 5D

**KAMINSKI, R. M.**  
Long-Term Wetland-Waterfowl Trends in Saskatchewan Grassland, W85-05734 1810 2H

**KAMIYAMA, Y.**  
New Thin-Film Composite Reverse Osmosis Membranes and Spiral Wound Modules, W85-02553 1805 3A

**KAMNEV, N. M.**  
Earth Dam of the Al-Hadithah Hydropower Development on the Euphrates River, W85-00505 1801 8D

**KAMP-NIELSEN, L.**  
Comparison of a Simple and a Complex Sediment Phosphorus Model, W85-01303 1803 2H

**KAMTE, P. P.**  
Stochastic Model of Drought, W85-05088 1810 2B

**KANAREK, M. S.**  
Drinking Water Treatment and Risk of Cancer Death in Wisconsin, W85-01214 1803 5C

Thermotolerant Non-fecal Source Klebsiella pneumoniae: Validity of the Fecal Coliform Test in Recreational Waters, W85-03747 1807 5A

**KANARSKII, N. D.**  
Parameters of Local Scour in the Region of a Single Cylindrical Pier and Factors Determining Them, W85-00493 1801 8B

**KANARSKII, V. F.**  
Calculation of the Seepage of Reservoir Dikes of Pumped-Storage Stations, W85-00444 1801 8B

Dynamics of the Formation of an Ice Prism on Reservoir Slopes of a Pumped-Storage Station, W85-00441 1801 8A

Wind and Wave Regimes of the Kiev Pumped-Storage Station Reservoir, W85-00449 1801 4A

**KANE, D. A.**  
National Contaminant Biomonitoring Program: Concentrations of Seven Elements in Freshwater Fish, 1978-1981, W85-07161 1812 5B

**KANE, D. F.**  
Persistence and Effects of Chemicals in Small Enclosures in Ponds, W85-02207 1805 5C

**KANE, E. S.**  
Nutrient Assimilative Capacity of an Alluvial Floodplain Swamp, W85-04386 1808 2L

**KANE, J.**  
Control Solids in Cooling Water to Cut Makeup Requirements, W85-01538 1803 5D

**KANEKO, S.**  
Fate of 2,4,6-Trichlorophenol, Pentachlorophenol, p-Chlorobiphenyl, and Hexachlorobenzene in an Outdoor Experimental Pond: Comparison between Observations and Predictions Based on Laboratory Data, W85-03227 1807 5B

**KANEKO, T.**  
Behavior of Cadmium in Short-Necked Clam, W85-05686 1810 5C

**KANIMASU, E. T.**  
Assessing Solar Energy and Water Use Efficiencies in Winter Wheat: A Case Study, W85-01058 1802 3F

Microclimate and Crop Responses to Center Pivot Sprinkler and to Surface Irrigation, W85-05922 1811 3F

**KANG, S. J.**  
ATP as a Measure of Active Biomass Concentration and Inhibition in Biological Wastewater Treatment Processes, W85-05561 1810 5D

**KANGA, A. R.**  
Current Water Treatment Practices in Western India - Case Studies of Two Metropolitan Cities, Bombay and Ahmedabad, W85-02024 1804 5F

**KANIANSKY, D.**  
Determination of Inorganic Anions in River Waters by Column-Coupling Capillary Isotachophoresis, W85-02304 1805 7B

**KANKALA, P.**  
Primary Production of Phytoplankton in the Oligohumic Kitka Lakes in Northern Finland, W85-03680 1807 2H

**KANSANEN, P. H.**  
Testing the Benthic Lake Type Concept Based on Chironomid Associations in Some Finnish Lakes Using Multivariate Statistical Methods, W85-04069 1808 2H

**KANTOREK, J.**  
Evaluating Dewatering Alternatives, W85-02992 1806 5E

Evaluating Enclosed Composting Systems, W85-02299 1805 5E

**KANWAR, R. S.**  
Determination of Crop Production Loss Due to Inadequate Drainage in a Large Watershed, W85-02987 1806 6B

Sensitivity Analysis of a Drainage Simulation Model, W85-01373 1803 2A

Simulated Effects of Fertilizer Management on Nitrate Loss with Tile Drainage Water for Continuous Corn, W85-04739 1809 6G

**KAO, J.-F.**  
Effect of Salinity on Reaeration Coefficient of Receiving Waters, W85-01398 1803 2L

**KAO, T. W.**  
Gravity Current Upstream of a Buoyant Influx in an Open-Channel Flow: A Numerical Study, W85-00175 1801 8B

**KAPALOSKI, L.**  
Satisfying Instream Flow Needs Under Western Water Rights, W85-06030 1811 6E

**KAPLAN, E.**  
Water Conservation, Recycling, and Reuse: U.S. Northeast, W85-03064 1806 3D

**KAPLAN, I. R.**  
Alpha-Tocopherol Acetate as an Indicator of Municipal Waste Contamination in the Environment, W85-05119 1810 5A

Capillary Gas Chromatography Determination of Volatile Organic Acids in Rain and Fog Samples, W85-04959 1809 5A

**KAPLAN, L. A.**  
Benthic Bacterial Biomass Supported by Streamwater Dissolved Organic Matter, W85-04088 1808 2H

Diel Fluctuations of DOC Generated by Algae in a Piedmont Stream, W85-01602 1803 2H

In Situ Measures of Dissolved Organic Carbon Flux in a Rural Stream, W85-01493 1803 2H

**KAPOS, V.**  
Water Relations of Jamaican Upper Montane Rain Forest Trees, W85-04824 1809 2I

**KAPP, H.**  
Denitrification in Sewage Treatment Plants - Demand in Regions with Small Carbonate Hardness of the Drinking-Water (Denitrifikation in Klaranlagen - Forderung in Regionen mit geringer Carbonatharte des Trinkwassers), W85-03271 1807 5D

**KAPP, K. J.**  
Statutory Forfeiture of Water Rights in Wyoming, W85-02176 1805 6E

**KAPSNER, J. C.**  
Complying with NPDES Permit Limits: When is a Violation a Violation, W85-07038 1812 6E

**KARAHAGOPIAN, Y.**  
Change in Quality of Thermal Groundwater From a Unique Resource in Lebanon, W85-01673 1804 2F

**KARAMOUZIS, D.**  
Computation of the Unsteady Two-Dimensional Free Surface of Groundwater by the Finite-Element Method, W85-03082 1806 2F

**KARARA, A. H.**  
Pharmacokinetic Model for the Uptake and Disposition of Di-2-Ethylhexyl Phthalate in Sheepshead Minnow Cyprinodon variegatus, W85-02377 1805 5C

**KARASEV, B. V.**  
Model of Tritium Infiltration in Aquifers Using a Lognormal Function, W85-04123 1808 2F

**KARASIK, G. YA.**  
River Runoff Maps of Some High-Mountain Regions of the World, W85-04151 1808 2E

**KARAVITIS, G. A.**  
Enhanced Job Control Language Procedures for the SIMSYS2D Two-Dimensional Water-Quality Simulation System, W85-03953 1808 7C

**KARBE, L.**  
Bioaccumulation and Partitioning of Cadmium within the Freshwater Mussel *Dreissena polymorpha* Pallas, W85-06884 1812 5B

**KARICKHOFF, S. W.**  
Organic Pollutant Sorption in Aquatic Systems, W85-00726 1802 5B

## AUTHOR INDEX

**KARIKARI, T. J.**

**KARIKARI, T. J.**  
Design of a Water Resources Training Program for Operation, Maintenance and Management, W85-06308 1812 9A

**KARIM, A. G. A.**  
Physical and Chemical Characteristics of the Blue Nile and the White Nile at Khartoum, W85-01026 1802 2H

Primary Production and Respiration of the Phytoplankton in the Blue and White Niles at Khartoum, W85-01030 1802 2H

Quantitative Study of the Phytoplankton in the Blue and White Niles at Khartoum, W85-01029 1802 2H

**KARL, T. R.**  
Identification of 10- to 20- Year Temperature and Precipitation Fluctuations in the Contiguous United States, W85-03847 1808 2B

**KARLANDER, E. P.**  
Effects of the Herbicide Atrazine on an Oyster-Food Organism, W85-01808 1804 5C

**KARLIN, E. F.**  
Variation in Substrate Chemistry along Microtopographical and Water-Chemistry Gradients in Peatlands, W85-00949 1802 2L

**KARLIN, R. J.**  
Causes of a Waterborne Giardiasis Outbreak, W85-04830 1809 5F

Waterborne Disease in Colorado: Three Years' Surveillance and 18 Outbreaks, W85-05521 1810 5F

**KARLINGER, M. R.**  
Daily Water and Sediment Discharges from Selected Rivers of the Eastern United States: A Time-Series Modeling Approach, W85-01823 1804 2J

**KARMEGAM, M.**  
Parameter Optimization in Flood Routing, W85-03790 1808 2E

**KARN, R. A.**  
Toxic Metal Removal from Electroplating Wastewater Using Silylated Silica Gel, W85-05579 1810 5D

**KARNAUKHOV, A. I.**  
Content of Heavy Metals in Water and in Certain Aquatic Plants of the Danube and Dnieper Mouth Areas (Soderzhanie Tyazhelykh Metallov v Vode i Nekotorykh Vodnykh Rasteniyakh V'st'evykh Oblastey Dunaya i Dnestr'a), W85-06470 1812 5B

**KARNEY, B.**  
Charts for Water Hammer in High Head Pump Discharge Lines Resulting from Pump Failure and Check Valve Closure, W85-06552 1812 8B

Charts for Water Hammer in Low Head Pump Discharge Lines Resulting from Water Column Separation and Check Valve Closure, W85-05455 1810 8B

**KARNIELI, A.**  
Effect of Urbanization in an Arid Region: Formation of a Perched Water Table That Causes Environmental Damages, W85-02862 1806 2F

Portable Evaporimeter for Rapid Measurement of the Evaporation Rate of Water, W85-06199 1812 2D

**KARNOVICH, V. N.**  
Canals Under Blizzard Conditions, W85-03581 1807 8A

**KAROLYI, M. S.**  
Goose Arm Karst, Newfoundland, Canada, W85-00014 1801 2F

**KARP, A. H.**  
Reef-Building Coral Skeletons as Chemical Pollution (Phosphorus) Indicators, W85-00200 1801 5A

**KARPINSKI, M.**  
Investigation of Photocatalytic Oxidation for Wastewater Cleanup and Reuse, W85-01813 1804 5D

**KARR, A. F.**  
Statistical Inference for Point Process Models of Rainfall, W85-04794 1809 2B

**KARR, J. R.**  
Fish Communities of Midwestern Rivers: A History of Degradation, W85-06565 1812 5C

Relationships Between Woody Debris and Fish Habitat in a Small Warmwater Stream, W85-04679 1809 2E

**KARR, P. R.**  
Effect of Low Dissolved Oxygen Concentration on Effluent Turbidity, W85-01653 1804 5D

**KARRA, S. B.**  
Kinetic Limitations on the Selective Precipitation Treatment of Electronics Wastes, W85-05698 1810 5D

Kinetics of Microbial Inactivation by Chlorine - I; Review of Results in Demand-Free Systems, W85-02917 1806 5D

Kinetics of Microbial Inactivation by Chlorine - II; Kinetics in the Presence of Chlorine Demand, W85-02918 1806 5D

**KARSAI, H. A.**  
New Electronic Evaporation and Rain Measuring Equipment, W85-01062 1802 7B

**KARTTUNEN, J. O.**  
Effects of Dissolved Organic Carbon on the Adsorption Properties of Plutonium in Natural Waters, W85-04799 1809 5B

**KARYAKIN, I. F.**  
Engineering-Geologic Surveys and Forecasts for Hydrotechnical Construction on Slump-Prone Loess Soils, W85-06591 1812 8D

**KASCHEMEKAT, J.**  
Field Trial of Reverse Osmosis in the El Khanka Desert, Egypt, W85-03974 1808 3A

Field Trial of Reverse Osmosis in the El Khanka Desert, Egypt, W85-07093 1812 3A

**KASHIMOTO, T.**  
Brominated Phenol Production from the Chlorination of Wastewater Containing Bromide Ions, W85-02776 1806 5B

**KASHINA, N. F.**  
Optimization of the Hydrobotanic Method of Wastewater Treatment to Remove Aromatic Amines by Mathematical Experimental Design Methods, W85-04140 1808 5D

Purification and Tertiary Treatment of Amine-Containing Sewage by Means of Aquatic Plants (Ochistka i Doochistka Aminosoderzhashchikh Stochnykh Vod c Pomoshchyu Vodnykh Rastenii), W85-06477 1812 5D

**KASHINOV, N. S.**  
Construction of the Flood (Freshet) Hydrograph of a Given Probability with Consideration of Its Unfavorable Shape, W85-00489 1801 2E

**KASPAR, H. F.**  
Effects of Mussel Aquaculture on the Nitrogen Cycle and Benthic Communities in Kenepuru Sound, Marlborough Sounds, New Zealand, W85-06211 1812 2L

**KASPRZAK, P.**  
Model Use and Verification of Ecological Parameters for an Oligotrophic Lake (Lake Stechlin, G.D.R.), W85-05602 1810 2H

**KASPRZYK, R.**  
Turbidity in the Western Basin of Lake Erie, W85-00512 1802 5B

**KASS, W.**  
Measurement of the Redox Potential in Groundwater (Redox-Messungen im Grundwasser(II)), W85-00972 1802 5A

**KASTELAN-MACAN, M.**  
Effect of Temperature on the Sorption of Lead and Cadmium by Ion Exchange, W85-03415 1807 5D

**KATERJI, N.**  
Water Transfer in Plants; III. - Simulation of the Influence of Canopy Parameters for Diurnal Development of Leaf Water Potential (Transfert Hydrique dans le vegetal; III. - Simulation de l'influence des parametres du couvert sur l'evolution diurne du potentiel hydrique foliarie), W85-00085 1801 2I

**KATICHEVA, I. A.**  
Stiromal, a New Effective Soil Structuring and Hydrophobizing Agent, W85-06753 1812 3B

**KATO, K.**  
Studies on the Carbon Flux from Phyto- to Bacterioplankton Communities in Lake Constance, W85-04672 1809 2H

**KATOPODES, N. D.**  
One-Dimensional Models for Partially Breached Dams, W85-02266 1805 8B

Two-Dimensional Surges and Shocks in Open Channels, W85-00730 1802 8B

**KATOPODIS, C.**  
Hydraulics of Denil Fishways, W85-02451 1805 8I

**KATRICH, I. YU.**  
Tritium Content in USSR Surface Waters in 1979-1980, W85-04108 1808 2K

**KATSMA, D. E.**  
High PCB Residues in Birds from the Sheboygan River, Wisconsin, W85-06288 1812 5C

**KATTELUS, L.**  
Economic Effects of River Construction Works, W85-02392 1805 6B

**KATTERMAN, F. R.**  
Bermudagrass Grown with Municipal Wastewater, W85-00680 1802 3C

**KATZ, B. G.**  
Geo hydrology of the Meadowbrook Artificial-Recharge Project Site in East Meadow, Nassau County, New York, W85-01774 1804 2F

## AUTHOR INDEX

KAZLOW, G. A.

**KATZ, H. M.**  
Sources of Nitrate in Ground Water in a Sewered Housing Development, Central Long Island, New York, W85-01529 1803 5B

**KATZ, J.**  
Reversible and Resistant Components of Hexachlorocyclohexane (Lindane) Sorption to New Jersey Coastal Plain Aquifer Solids, W85-06600 1812 5B

**KATZ, R. W.**  
Exploratory Analysis of Precipitation Events with Implications for Stochastic Modeling, W85-06427 1812 2B

**KATZ, S.**  
Mechanisms and Pathways of Aniline Elimination from Aquatic Environments, W85-02932 1806 5B

**KATZ, W. E.**  
State-of-the-Art of the Electrodialysis Reversal (EDR) Process, W85-01851 1804 5D

**KATZMANN-HAMBOCK, M.**  
Throughflow Investigations in 'Vorderer Finstertaler See' (Tyrol) by Uranin Dye (Durchflusuntersuchungen am Vorderen Finstertaler See (Kuehtai, Oesterreich) mit Uranin-Faeversuches), W83-02524 1805 2E

**KAUFFMAN, R. W.**  
Investigation of the Carrying Capacity of the Monocacy River as a Scenic and Recreational Resource, Volume II. Characteristics and Interpretations of Selected Social and Environmental Considerations Important to the Monocacy River, W85-00606 1802 6G

**KAUFFMANN, B. M.**  
Toxicology of Organic Drinking Water Contaminants: Trichloromethane, Bromodichloromethane, Dibromochloromethane and Tribromomethane, W85-01211 1803 5C

**KAUFMAN, D.**  
Channel Change, Sediment Transport, and Fish Habitat in a Coastal Stream: Effects of an Extreme Event, W85-05069 1810 2E

**KAUFMAN, P. B.**  
Comparison of Heavy Metals in Aquatic Plants on Charity Island, Saginaw Bay, Lake Huron, U.S.A., with Plants along the Shoreline of Saginaw Bay, W85-06740 1812 5B

**KAUFMAN, S.**  
Epilimnetic Nutrient Loading by Metalimnetic Erosion and Resultant Algal Responses in Lake Waramaug, Connecticut, W85-02093 1804 2H

**KAUFMANN, K.**  
Weizadol Power Station on the Mur (Das Kraftwerk Weizadol an der Mur), W85-01860 1804 8A

**KAUFMANN, M. R.**  
Effects of Cold Soil on Water Relations and Spring Growth of Douglas-fir Seedlings, W85-03128 1806 2I

**KAUL, L. W.**  
Geochemical Behavior of Inorganic Germanium in an Unperturbed Estuary, W85-04760 1809 2K

**KAUL, S.**  
Modeling Estuarine Nutrient Geochemistry in a Simple System, W85-01702 1804 2L

**KAUL, S.**  
Chemical Composition of Aquatic Vegetation in Some Typical Wetlands of Kashmir, W85-06651 1812 2H

**KAUL, S.**  
Sediment Composition, Mud-water Interchanges and the Role of Macrophytes in Dal Lake, Kashmir, W85-04940 1809 2H

**KAUL, V.**  
Effects of Flushing Rate on Phosphorus Retention in an Aquatic Biome, W85-07147 1812 2H

**KAUPPI, L.**  
Contribution of Agricultural Loading to the Degradation of Surface Waters in Finland, W85-06292 1812 5B

**KAUSCH, H.**  
Nitrate in Runoff and River Waters in Finland in the 1960's and 1970's, W85-06293 1812 5B

**KAUSCH, H.**  
Role of Runoff Water Phosphorus in Eutrophication, W85-06294 1812 5B

**KAUSHIK, N. K.**  
Testing the Applicability of the CREAMS Model to Estimation of Agricultural Nutrient Losses in Finland, W85-05062 1810 2E

**KAUSHIK, N. K.**  
Investigations on the Limnology of Small Fertilized Ponds (Untersuchungen zur Limnologie gedungter Kleinteiche), W85-04060 1808 2H

**KAUTZMANN, G.**  
Dissipation of Permethrin in Limnocorals, W85-04838 1809 5B

**KAVADIA, K. M.**  
Grouting Rebars Earth Dam, W85-02728 1806 8A

**KAVADIA, K. M.**  
Removal of Phenol Using Water Hyacinth in a Continuous Unit, W85-05449 1810 5D

**KAVERIAPPAN, K. M.**  
Seasonal Occurrence of Water-borne Fungi in Konaje Stream (Mangalore), India, W85-04387 1808 2H

**KAVETSKY, V. N.**  
Content of Heavy Metals in Water and in Certain Aquatic Plants of the Danube and Dnieper Mouth Areas (Soderzhanie Tyazhelykh Metalov v Vode i Nekotorykh Vodnykh Rasteniyakh Vst'evykh Oblastei Dunaya i Dnestra), W85-06470 1812 5B

**KAWABATA, Z.**  
Phosphorus Budgets of Indoor Reservoir Models Varying in Sediment Composition and Water Inlet Site, W85-02620 1805 2H

**KAWAGUCHI, N.**  
Characteristics of Heavy Metals in the Bottom Mud of Mining and Urban Rivers (in Japanese), W85-00533 1802 5B

**KAWAI, A.**  
Inorganic Nutrients Occurring in the Oxygen-deficient Bottom Water of Osaka Bay, W85-04606 1809 2K

**KAWAI, S.**  
Oxygen Consumption in the Bottom Water Related with the Production of Sulfides in the Bottom Sediments, W85-00139 1801 2K

**KAWAI, S.**  
Metals and Synthetic Organic Compounds in Plankton from the Estuary and Harbor Area in Osaka City, W85-04607 1809 5A

**KAWAI, T.**  
Simultaneous Multielement Determination of Trace Metals in Lake Waters by ICP-Emission Spectrometry with Preconcentration and Their Background Levels in Japan, W85-06738 1812 5A

**KAWAKITA, M.**  
Distribution of River Discharged Suspended Matter in Coastal Water (in Japanese), W85-03608 1807 2J

**KAWAMURA, K.**  
Capillary Gas Chromatography Determination of Volatile Organic Acids in Rain and Fog Samples, W85-04959 1809 5A

**KAWANA, K.**  
Turbid Bottom Water Layer and Bottom Sediment in the Seto Inland Sea, W85-02530 1805 2J

**KAWASE, J.**  
Biodegradation of Linear Alkylbenzene Sulfonates and Soap in River Water (in Japanese), W85-03508 1807 5B

**KAWATSKI, J. A.**  
Existence of Anionic Surfactants in River (in Japanese), W85-00191 1801 5A

**KAWATSKI, J. A.**  
Occurrence of Polychlorinated Biphenyls (PCBs) in Adult Mayflies (*Hexagenia bilineata*) of the Upper Mississippi River, W85-04316 1808 5B

**KAWECKA, B.**  
Stream Ecosystems in Mountain Grassland (West Carpathians); 6. Sessile Algae Communities, W85-02517 1805 5B

**KAY, D.**  
Process Based Model of Faecal Bacterial Levels in Upland Catchments, W85-01420 1803 5B

**KAY, S. H.**  
Effects of Heavy Metals on Water Hyacinths (*Eichhornia crassipes* (Mart.) Solms), W85-00880 1802 5D

**KAYE, K. A.**  
Subby Reservoir, Isle of Man: Design and Construction, W85-01521 1803 8A

**KAYLOR, W. H.**  
Gas Chromatography/Mass Spectroscopy Analysis of Mutagenic Extracts of Aqueous Chlorinated Humic Acid. A Comparison of the Byproducts to Drinking Water Contaminants, W85-02345 1805 5B

**KAZANTSEV, B. E.**  
Evaluation of the Effectiveness of Measures to Shorten the Construction Time of Mass Concrete Structures of Hydroelectric Stations, W85-00476 1801 6B

**KAZI, A.**  
Hydrogeology of Wadi Al-Yamaniyah, Saudi Arabia, W85-01527 1803 2F

**KAZLOW, G. A.**  
Acute Toxicity of a Synthetic Oil, Aniline and Phenol to Laboratory and Natural Populations of Chironomid (Diptera) Larvae, W85-01445 1803 5A

## AUTHOR INDEX

**KEAENEY, M. S.**

**KEAENEY, M. S.**  
Recent Vertical Accretion Rates at Blackwater  
Wildlife Refuge,  
W85-01809 1804 2L

**KEAL, M. J.**  
Effective Manganese Removal Using Lime as an  
Additive,  
W85-03619 1807 5D

**KEANEY, J. L.**  
Water Supplies in Rhode Island Past to Present,  
W85-01314 1803 5F

**KEATCH, R.**  
Model for the Movement of Sewage Effluent,  
According to Sea State, in a Bay Situation,  
W85-00560 1802 5B

**KEATING, T.**  
Lumped Parameter Model of a Chalk Aquifer-  
Stream System in Hampshire, United Kingdom,  
W85-00323 1801 2A

Recharge into a Shingle Beach,  
W85-01175 1803 2F

**KEATINGE, J. D. H.**  
Comparison of Rainfall Regimes at Six Sites in  
Northern Syria,  
W85-06194 1812 2B

**KECK, T. J.**  
Effects of Water and Salt Stress on Growth and  
Acetylene Reduction in Alfalfa,  
W85-03962 1808 2I

**KEDDY, P. A.**  
Quantifying a Within-Lake Gradient of Wave  
Energy in Gillfillan Lake, Nova Scotia,  
W85-00950 1802 2H

Quantifying Within-Lake Gradients of Wave  
Energy: Interrelationships of Wave Energy,  
Substrate Particle Size and Shoreline Plants in  
Axe Lake, Ontario,  
W85-01079 1802 2H

Wave Disturbance on Lakeshores and the  
Within-Lake Distribution of Ontario's Atlantic  
Coastal Plain Flora,  
W85-06518 1812 2H

**KEEL, R. T.**  
Preconcentration of Submicrogram Amounts of  
Metals from Natural Waters for X-ray Energy  
Spectrometric Determination Using Pyrrolidine-  
carboxylic Acid,  
W85-04621 1809 5A

**KEELY, J. F.**  
Optimizing Pumping Strategies for Contaminant  
Studies and Remedial Actions,  
W85-02217 1805 5G

**KEENE, W. C.**  
Composition of Precipitation in Remote Areas  
of the World,  
W85-00514 1802 2K

Gran's Titrations: Inherent Errors in Measuring  
the Acidity of Precipitation,  
W85-05774 1810 5A

Organic Acidity in Precipitation of North America,  
W85-04499 1809 5B

**KEENEY, D. R.**  
Role of Sediments in the Nitrogen Budget of  
Lower Green Bay, Lake Michigan,  
W85-01754 1804 5B

**KEHEW, A. E.**  
Hydrogeochemical Interaction Between a Mu-  
nicipal Waste Stabilization Lagoon and a Shal-  
low Aquifer,  
W85-03154 1806 5G

**KEIL, G. M.**  
Sludge Management Survey, (Fox River Valley,  
Wisc.),  
W85-00834 1802 5G

Wetlands of the Winnebago Pool: A Detailed  
Field Survey and Management Recommenda-  
tions,  
W85-00828 1802 5G

**KEIRA, H. M. S.**  
Stress-Deformation Predictions for the LG 4  
Main Dam,  
W85-00141 1801 8D

**KEITEL, H.-P.**  
Practicability of Dam Rehabilitation (Praktische  
Möglichkeiten und Grenzen der Talsperrensan-  
ierung),  
W85-03254 1807 8A

**KEITHAN, E. D.**  
Primary Productivity and Spatial Structure of  
Phytolithic Growth in Streams in the Great  
Smoky Mountains National Park, Tennessee,  
W85-06793 1812 2H

**KELKAR, D. N.**  
Wet Deposition of Cadmium, Lead and Copper  
at Deonar (Bombay) and its Relationship with  
Rainfall,  
W85-06888 1812 5B

**KELLER, E. J.**  
Effect of Ash Fallout on Water Quality in West-  
ern Montana,  
W85-06325 1812 5C

**KELLER, J.**  
Foliar Fluoride Accumulation Under Sprinkle  
Irrigation,  
W85-01192 1803 5B

**KELLER, M.**  
Effects of the Marseilles' Sewage Outfall on  
Meiobenthic Populations (Effets du Diverse-  
ment en mer du Grand Collecteur de l'Aglo-  
meration Marseillaise sur les Populations Meioben-  
thiques),  
W85-05619 1810 5C

**KELLER, R. J.**  
Cut-Throat Flume Characteristics,  
W85-02453 1805 7B

**KELLER, W.**  
Crustacean Plankton in Northeastern Ontario  
Lakes Subjected to Acidic Deposition,  
W85-02954 1806 2H

Spawning Site Water Chemistry and Lake Trout (Salvelinus namaycush) Sac Fry Survival during  
Spring Snowmelt,  
W85-00150 1801 5C

**KELLERHALS, P.**  
Quantitative Analysis of Debris Torrent Hazards  
for Design of Remedial Measures,  
W85-05529 1810 2J

**KELLEY, D. W.**  
Decline of Striped Bass in the Sacramento-San  
Joaquin Estuary, California,  
W85-06403 1812 5C

**KELLEY, L. M.**  
Effect of Nonconforms on Coliform Detection  
in Potable Groundwater: Improved Recovery  
with an Anaerobic Membrane Filter Technique,  
W85-02140 1804 5F

Virus Persistence in Groundwater,  
W85-06140 1811 5B

**KELLEY, R. L.**  
Historical Perspective on Salinity and Drainage  
Problems in California,  
W85-03655 1807 4A

**KELLOGG, R. J.**  
Thermal Mortality Prediction Equations for En-  
trainable Striped Bass,  
W85-04682 1809 5C

**KELLY, C. A.**  
Effects of Lake Acidification on Rates of Organ-  
ic Matter Decomposition in Sediments,  
W85-02218 1805 5C

Method for Measuring the Response of Sed-  
iment Microbial Communities to Environmental  
Perturbations,  
W85-04067 1808 2H

**KELLY, C. R.**  
Temperature and Nutrient Effects on the Anaer-  
obic Expanded Bed Treating a High Strength  
Waste,  
W85-05547 1810 5D

**KELLY, J. M.**  
Power Plant Influences on Bulk Precipitation,  
Throughfall, and Stemflow Nutrient Inputs,  
W85-01286 1803 5B

**KELLY, K. E.**  
Bailing and Construction Considerations for  
Deep Aquifer Monitoring Wells on Western Oil  
Shale Leases,  
W85-00304 1801 5A

**KELLY, M. G.**  
Identification of Photosynthesis-Light Models  
for Aquatic Systems; II. Application to a Macro-  
phyte Dominated Stream,  
W85-00269 1801 2H

**KELLY, W. E.**  
Ground-Water Dispersion Calculations with a  
Programmable Calculator,  
W85-00352 1801 2F

Influence of Anisotropy on Relations Between  
Electrical and Hydraulic Properties of Aquifers,  
W85-03756 1807 2F

Relations Between Aquifer Electrical and Hy-  
draulic Properties,  
W85-05839 1810 2F

**KELLY, W. R.**  
Iron Oxidation in Industrial Waste Streams,  
W85-05289 1810 5D

**KELSO, J. R. M.**  
Responses of Fish Communities to Acidic  
Waters in Ontario,  
W85-04204 1808 5C

**KELTS, K.**  
Turbidity Currents in Lakes: Oxygen-Input by  
Underflowing River Water (Trubestrome in  
Seen: Sauerstoffeintrag Durch Grundnah  
Eingeschichtetes Flusswasser),  
W85-04073 1808 2H

**KEMP, G.**  
Characterization of Non-Point Waste Sources,  
Report No. 6: Summary of Non-Point Waste  
Loads, (Fox River Valley, Wisc.),  
W85-00833 1802 5B

**KEMP, L.**  
Aspects of the Limnology of Lake Rotongaio,  
W85-00807 1802 2H

Effect of Vertical Mixing on the Phytoplankton  
of Lake Rotongaio (July 1979 January 1981),  
W85-00805 1802 2H

**KEMP, N. J.**  
Vertical Temperature Distribution in Lakes,  
W85-01651 1804 2H

**KEMP, W. M.**  
Coupling of Nitrification and Denitrification in  
Two Estuarine Sediments,  
W85-01333 1803 2L

## AUTHOR INDEX

KERNODLE, D. R.

Influence of Waves and Seagrass Communities on Suspended Particulates in an Estuarine Embayment, W85-03347	1807	2L	KENNEDY, J. F. Computer-Based Prediction of Alluvial Riverbed Changes, W85-06117	1811	2J	KENOYER, G. J. Ground Water as a Silica Source for Diatom Production in a Precipitation-Dominated Lake, W85-05775	1810	2H
Temporal Responses of the Macrophyte, <i>Potamogeton perfoliatus</i> L., and Its Associated Auto-trophic Community to Atrazine Exposure in Estuarine Microcosms, W85-05708	1810	5C	Secondary Current and River-Meander Formation, W85-03035	1806	2E	KENT, D. C. Analytical Methods for the Prediction of Leachate Plume Migration, W85-06831	1812	5B
KEMPE, S. Monitoring Carbon in World Rivers, W85-03654	1807	5B	KENNEDY, K. J. Effect of Height on the Performance of Anaerobic Downflow Stationary Fixed-Film Reactors Treating Bean Blanching Waste, W85-05232	1810	5D	Prediction of Economic Potential for Irrigation Using a Ground-Water Model, W85-00336	1801	4B
KEMPER, W. D. Cablegation: IV. The Bypass Method and Cutoff Outlets to Improve Water Distribution, W85-03382	1807	3F	Effect of Influent Concentration on the Startup of an Anaerobic Downflow Stationary Fixed Film (DSFF) Reactors, W85-05549	1810	5D	KENT, R. J. Toxicity, Uptake, and Elimination of the Herbicides Alachlor and Dinozeb in Freshwater Fish, W85-01296	1803	5C
Soil Cohesion as Affected by Time and Water Content, W85-02871	1806	2G	KENNEDY, M. A. Interactive Computer Modeling, Monitoring, and Control of Melbourne's Water Supply System, W85-05492	1810	5F	KEOELAN, G. A. Implicit-Adsorbate Model for Apparent Anomalies with Organic Adsorption on Natural Adsorbents, W85-03663	1807	5B
Surface Films Affecting Velocity Profiles of Slowly Moving Water in Open Channels, W85-05169	1810	2E	KENNEDY, R. H. Phosphorus Dynamics in an Arkansas Reservoir: The Importance of Seasonal Loading and Internal Recycling, W85-06964	1812	2H	KEOUGH, J. R. Movement of Water from Peatland into Surrounding Groundwater, W85-00953	1802	2L
KEMPTON, J. P. Three-Dimensional Geologic Mapping: A Basis for Hydrogeologic and Land-Use Evaluations, W85-03272	1807	8E	KENNEDY, S. K. Origin of Shape Changes of Sand and Silt in a High-Gradient Stream System, W85-05618	1810	2J	KERAMBRUN, P. Impact of Domestic Sewage Pollution on Enzymatic Activities of Two Planktonic Copepods ( <i>Acartia clausi</i> and <i>Centropages typicus</i> ) (Impact d'une Pollution d'Origine Urbaine sur les Activites Enzymatiques de deux Copepodes Planctoniques ( <i>Acartia Clausi</i> et <i>Centropages typicus</i> )), W85-01898	1804	5C
KENDRICK, B. Uptake of Diquat by Four Aero-Aquatic Hyphomycetes, W85-05852	1811	5C	KENNEDY, V. C. Interactions of Solutes and Streambed Sediment; 1. An Experimental Analysis of Cation and Anion Transport in a Mountain Stream, W85-03985	1808	2K	KERAMIDA, V. Treatment of Metal Plating Wastewater with a Disposable Ion Exchange Material, W85-05243	1810	5D
KENLAN, K. H. Acidification and Changes over Time in the Chydorid Cladocera Assemblage of New England Lakes, W85-04203	1808	5C	Low-Flow Transport Models for Conservative and Sorbed Solutes - Uvas Creek Studies, W85-03948	1808	2B	KERAMIDAS, G. A. Finite Element Modelling of Surface Waves in a Channel, W85-04014	1808	8B
Aquatic Macrophytes and pH as Controls of Diversity for Littoral Cladocerans, W85-04202	1808	5C	KEREKES, J. Problems Associated with Sulphate Determination in Colored, Humic Waters in Kejimkujik National Park, Nova Scotia (Canada), W85-05661	1810	5A			
KENNA, M. Effectiveness of Hydrotreatment in Reducing the Toxicity of a Coal Liquefaction Product to Juvenile Channel Catfish, W85-07152	1812	5G	KEREKES, J. J. Comparison of Plankton-Water Chemistry Relationships in Three Acid Stressed Lakes in Nova Scotia, Canada, W85-04911	1809	2H			
KENNARD, W. C. Annotated Bibliography of Remote Sensing for Highway Planning and Natural Resources, W85-00047	1801	10C	KEREN, R. Effect of Water Quality and Drying on Soil Crust Properties, W85-05189	1810	2G			
KENNEDY, B. J. Effects of Bryophytes on Succession from Alkaline Marsh to Sphagnum Bog, W85-00088	1801	2H	KERESE, J. Energy-Saving Control of the Aerobic Stage by Means of a Microprocessor (Energiesparende Steuerung der Aerobstufe durch Mikroprozessor), W85-03464	1807	5D			
KENNEDY, E. A. Application of the Biotel Ocean Monitor System to a Study of the Impacts of Ocean Dumping of Dredged Material in the New York Bight, W85-00051	1801	5C	KERFOOT, W. B. Darcian Flow Characteristics Upgradient of a Kettle Pond Determined by Direct Ground Water Flow Measurement, W85-03193	1806	2F			
KENNEDY, E. J. Computation of Continuous Streamflow Records, W85-02053	1804	2E	Portable Well Point Sampler for Plume Tracking, W85-03172	1806	7B			
KENNEDY, H. M. Natural Factors and Human Modifications Contributing to Marsh Loss in Louisiana's Mississippi River Deltaic Plain, W85-04603	1809	2L	KERNODLE, D. R. Reconnaissance of Surface Water Resources in the Togiak River Basin, Southwestern Alaska, 1980 and 1982, W85-01777	1804	2A			
KENNEDY, J. B. Reinforced Earth Retaining Wall Under Vertical and Horizontal Strip Loading, W85-03423	1807	8D						
KENNEDY, J. E. JR. Comparison of Selective Media for Assay of Coliphages in Sewage Effluent and Lake Water, W85-04258	1808	5A						

**AUTHOR INDEX**

**KERNs, W. R.**

**KERNs, W. R.**  
Evaluation of Alternative Policies for Controlling Agricultural Nonpoint Source Pollution, W85-04989 1810 6B

**KERR, J.**  
Case History of Industrial Pretreatment in Columbus, Ohio, W85-03331 1807 5D

**KERR, J. P.**  
Evapotranspiration from Pasture: A Comparison of Lysimeter and Bowen Ratio Measurements with Priestley-Taylor Estimates, W85-06182 1812 2D

**KERR, R. A.**  
Fifteen Years of African Drought, W85-05462 1810 2B

**KERSEY, K. E.**  
Preliminary Study of Aquatic Insect Communities and Leaf Decomposition in Acid Streams near Dorest, Ontario, W85-06003 1811 5C

**KERSHAW, P. J.**  
Incorporation of Plutonium, Americium and Curium into the Irish Sea Seabed by Biological Activity, W85-04357 1808 5B

**KERSTER, H. W.**  
Evaluation of a Community-Based Index Using Benthic Indicator-Organisms for Classifying Stream Quality, W85-07046 1812 5A

Municipal Compliance - Another View, W85-02571 1805 6E

**KERSTING, K.**  
Bimodal Diel Dissolved Oxygen Curves and Thermal Stratification in Polder Ditches, W85-00997 1802 2H

Development and Use of an Aquatic Micro-Ecosystem as a Test System for Toxic Substances. Properties of an Aquatic Micro-Ecosystem IV, W85-02570 1805 5A

**KERTELLI, C. R.**  
Industrial Wastewater Treatment with Water Reuse at a Coal-Fired Generating Station, W85-02579 1805 5D

Textile Dyehouse Wastewater Treatment: A Case History, W85-05240 1810 5D

**KERTESS, M.**  
Removal of Volatile Chlorinated Hydrocarbons from Groundwater (Entfernung leichtflüchtiger Chlorkohlenwasserstoffe aus Grundwasser), W85-05136 1810 5G

**KESSAVO RAO, A. V. R.**  
Water Balance and Crops in Karnataka, W85-02127 1804 2I

**KESSE, U.**  
Modeling of Groundwater Conditions in the Leipzig-Delitzsch Mining Region (Modellierung der Grundwasserverhältnisse im Bergbaugebiet Leipzig-Delitzsch), W85-04321 1808 2F

**KESSEL, B.**  
Waterfowl Populations and Limnologic Characteristics of Taiga Ponds, W85-04081 1808 2H

**KESWICK, B. H.**  
Detection of Enteric Viruses in Treated Drinking Water, W85-02136 1804 5F

Use of Microorganisms as Ground-Water Tracers: A Review, W85-00299 1801 5A

**KETCHESON, J. W.**  
Reaction of Fertilizer and Liquid Manure Phosphorus with Soil Aggregates and Sediment Phosphorus Enrichment, W85-06722 1812 5E

**KEULDER, P. C.**  
Leaf Area as a Measure of Standing Crop of Floating Aquatic Macrophytes, W85-04817 1809 2H

Particle Size Distribution and Chemical Parameters of the Sediments of a Shallow Turbid Impoundment, W85-02082 1804 2H

**KHACHATRYAN, E. A.**  
Calculation of Seepage from a Reservoir by the Mathematical Modeling Method, W85-05822 1810 2F

**KHACHATURYAN, G. T.**  
Calculation of Seepage from a Reservoir by the Mathematical Modeling Method, W85-05822 1810 2F

**KHADAKKER, S. N.**  
Wastewater Treatment of a Phthalate Plasticizer, Ethanolamine and Morpholine Manufacturing Plant: A Case Study, W85-05226 1810 5D

**KHAKIMOVA, G. K.**  
Basic Principles of Recommendations on On-Site Observations of Deformations of Rock Foundations of High Concrete Dams, W85-06593 1812 8E

**KHAKIMOVA, G. KH.**  
Some Factors Affecting Vertical Displacements of the Foundation of the Inguri Arch Dam, W85-00455 1801 8E

**KHALAF, A. N.**  
Age and Growth of Barbus grypus Heckel from a Polluted River, W85-01451 1803 5C

**KHALEEL, R.**  
Galerkin Finite-Element Program for Simulating Unsaturated Flow in Porous Media, W85-04645 1809 2F

**KHALIL, E. F.**  
Interactions of the Molluscicide 'Baylusicide' with Development of Dinitrogen Fixers and Their N2-ase and Respiratory Activities in Water, W85-04058 1808 5C

**KHALIL, J. B.**  
Changes in the Quality of Nile Water in Egypt During the Twenty-Five Years, 1954-1979, W85-05162 1810 6G

Distribution of Carbonates, Bicarbonates, and pH Values in Ground Water of the Nile Delta Region, Egypt, W85-04638 1809 2K

**KHALIL, M. F.**  
Fatty Acids in Recent Sediments in the St. Lawrence Estuary, W85-00657 1802 2L

**KHAM, M. A.**  
Simultaneous Determination of Zinc and Chromate in Cooling Water by Differential Pulse Polarography, W85-04624 1809 5A

**KHAMABETE, N. N.**  
Application of Markov Chain Model in Determining Drought Proneness, W85-05092 1810 2B

Estimation of Weekly Potential Evapotranspiration, W85-05099 1810 2D

**KHAN, A. M.**  
Influence of Physico-Chemical Factors on the Coliform Bacteria in a Closed-Lake Water System, W85-01672 1804 2H

**KHAN, A. U.**  
Effect of Water Hardness on the Toxicity of Cadmium to Micro-Organisms, W85-04295 1808 5C

Effects of a Textile Factory Effluent on Soil and Crop Plants, W85-04945 1809 5D

**KHAN, M. A.**  
Diurnal Variations of Physico-Chemical Factors and Planktonic Organisms in Jos Plateau (West Africa) Water Reservoir, W85-00544 1802 2H

Limnological Aspects of Plankton Variation and Water Characteristics of a Tropical West African Reservoir, W85-05643 1810 2H

Limnology and Plankton Periodicity of Jos Plateau Water Reservoir, Nigeria, West Africa, W85-02546 1805 2H

Pollution in the Ganges River, India, W85-01411 1803 5B

**KHAN, M. A. Q.**  
Fate of Hexachlorocyclopentadiene in Water and Goldfish, W85-02214 1805 5B

**KHAN, S. M.**  
Management of River and Reservoir Sedimentation in Pakistan, W85-06544 1812 4D

**KHANBILVARDI, R. M.**  
Effect of Soil Depth on Wastewater Renovation, W85-06609 1812 5D

Mathematical Model of Erosion and Deposition on a Watershed, W85-03366 1807 2J

Quantitative Evaluation of Sediment Delivery Ratios, W85-04993 1810 2J

**KHANDAL, A. S.**  
Combined Effect of Salinity and Triethyl Stanic Chloride on the Development of the Marine Forms of Three-Spine Stickleback, Gasterosteus aculeatus (Gasterosteidae), W85-05750 1810 5C

**KHANGAROT, B. S.**  
Acute Toxicity of Phenol, Pentachlorophenol and Sodium Pentachlorophenate to a Freshwater Ostracod Cypris subglobosa (Sowerby), W85-06271 1812 5C

**KHANIF, Y. M.**  
Evaluation of the Burns Model for Nitrate Movement in Wet Sandy Soils, W85-04248 1808 2K

**KHANINA, R. M.**  
Effect of Organic Substances on the Results of Anodic Stripping Voltammetry Detection of Metal Ions in Aqueous Media, W85-06056 1811 5A

**KHARAKA, Y. K.**  
Hydrogeochemistry of Big Soda Lake, Nevada: An Alkaline Meromictic Desert Lake, W85-00297 1801 2H

**KHARKEVICH, N. S.**  
Abiotic Environmental Factors and Primary Production of Water Bodies of the Kovda River Basin (Abioticheskie Faktory i Pervich-

**AUTHOR INDEX**

KING, J. M.

naya Produktsiya Vodoemov Baschina r. Kovdy), W85-06480	1812 2H	KIJOWSKI, W. Determination of Total Reduced Sulfur in Natural Waters, W85-01596	1803 5A	KIMMEL, W. G. Causes of Acidification of Four Streams on Laurel Hill in Southwestern Pennsylvania, W85-03861	1808 5B
<b>KHEDR, M. G. A.</b> Field Trial of Reverse Osmosis in the El Khanka Desert, Egypt, W85-03974	1808 3A	KIKUCHI, E. Effects of the Oligochaete Branchiura sowerbyi Beddard (Tubificidae) on the Biological and Chemical Characteristics of Overlying Water and Soil in a Submerged Ricefield Soil System, W85-01482	1803 2H	In-Situ Bioassays of Fish Mortality in Two Pennsylvania Streams Acidified by Atmospheric Deposition, W85-00205	1801 5C
Field Trial of Reverse Osmosis in the El Khanka Desert, Egypt, W85-07093	1812 3A	KIKUCHI, T. Toxicity and Accumulation of Mercury in Fish, the Himekada Oryzias latipes,	1801 5C	KIMREY, J. O. Geohydrologic Reconnaissance of Drainage Wells in Florida, W85-03959	1808 2F
<b>KHILAR, K. C.</b> Biological Denitrification in a Fluidized Bed, W85-04660	1809 5D	KILANI, J. S. Effects of Baffles on the Performance of Model Waste Stabilization Ponds, W85-00138	1804 5D	KIMURA, H. Water Flow Characteristics of Uranouchi Bay During the Summer Stratification Season (in Japanese), W85-04070	1808 2L
<b>KHORKOV, V. I.</b> Seismic Stability of the Mingechar Dam, W85-03578	1807 8A	KILASONIYA, D. N. Determination of Water Pressure in Pressure Tunnels and Conduits under a Seismic Load, W85-00475	1801 8B	KIMURA, T. Observation of Ice Pellets, W85-04025	1808 2C
<b>KHOREVA, Z. N.</b> Dynamics and Composition of Silt Deposits in the North Donets-Donbas Canal, W85-04101	1808 2J	KILBURN, P. D. Increased Diversion at Chicago: Initial Assessment, W85-01580	1803 6B	KINARD, J. T. Evaluation of Electrode Methods for Determining Total Residual Chlorine in Various Water Matrices, W85-02123	1804 7B
<b>KHOSLA, B. K.</b> Hydraulic Properties of a Sandy Loam Soil as Influenced by Salinisation and Desalinisation, W85-05934	1811 2G	KILCULLEN, B. M. Evaluation of Hollow Fiber Ultrafiltration as a Pretreatment for Reverse Osmosis Desalination of Seawater, W85-01830	1804 3A	KINCAID, D. C. Cablegation: IV. The Bypass Method and Cut-off Outlets to Improve Water Distribution, W85-03382	1807 3F
<b>KHOSROWPAHNAH, S.</b> Historical Overview of Cross-Flow Turbine, W85-03328	1807 8C	KILHAM, P. Acid Precipitation: Its Role in the Alkalization of a Lake in Michigan, W85-01592	1803 5C	Cablegation: V. Dimensionless Design Relationships, W85-03383	1807 3F
<b>KHOUREY, C. H.</b> Nature and Source of Arsenic in Northeastern Ohio Ground Water, W85-00325	1801 5B	KILSOPP, S. D. Nonvolatile Organic Compounds in Treated Waters, W85-01208	1803 5F	KINCANNON, D. F. Predicting Treatability of Multiple Organic Priority Pollutant Wastewaters from Single-Pollutant Treatability Studies, W85-05280	1810 5D
<b>KHRISTOFOROVA, N. K.</b> Metal-Binding Proteins and Activity of Alkaline Phosphatase in the Oyster <i>Crassostrea gigas</i> in Anthropogenically Polluted Environment (Metallyavyazyvayushchie Belki i Aktivnost' Shchelochnoi Fosfatazy v Gigantskoj Ustristre, Obiyushchey v Usloviyakh Antropogennogo Zaryazneniya), W85-02719	1806 5C	KILLEEN, K. Priorities for River Recreation Management in the Southern Appalachians, W85-00545	1802 6A	Variability Analysis During Biological Treatability of Complex Industrial Wastewater for Design, W85-05292	1810 5D
<b>KIBLER, D. F.</b> Irrigation in Humid Areas: Net Benefits, W85-01576	1803 2G	KILNER, S. M. Aquifer Protection Planning: Groundwater Protection in Two Massachusetts Communities, W85-05912	1811 5G	KINDER, R. Further Development of Oil-Separation Technology (Weiterentwicklung von Technologien bei der Olabtrennung), W85-03473	1807 5D
<b>KIDD, W. E.</b> Erosion on Very Stony Forest Soil During Phenomenal Rain in Webster County, West Virginia, W85-06967	1812 2J	KILOPS, S. D. Aquifer Protection Planning in the North Eastern United States, W85-01524	1803 5G	KINDLER, J. Interactive Water Resources Modeling and Model Use: An Overview, W85-05489	1810 6B
<b>KIDO, A.</b> Determination of Trace Azaarenes in Water by Gas Chromatography and Gas Chromatography-Mass Spectrometry, W85-00165	1801 5A	KIM, K.-T. Transparency and Seston Weight of the Etang de Berre (Mediterranean Coast of France); Relations between the Tributaries and the Marine Environment (La Transparence et la Charge Sestonique de l'Etang de Berre (cote Mediterranee francaise); Relations avec les affluents et le milieu marin voisin), W85-00993	1802 2L	Operation of Reservoir Systems with Special Reference to the Upper Wisla, W85-04102	1808 6A
<b>KIDSON, R. J.</b> Maintenance of Drinking Water Quality: The Essential Decisions, W85-04449	1809 5F	KIMBALL, B. A. Quantifying Effects of Atmospheric CO <sub>2</sub> Enrichment on Stomatal Conductance and Evapotranspiration of Water Hyacinth via Infrared Thermometry, W85-06202	1812 2D	KINDSCHY, R. R. Method for Estimating Precipitation Amounts at Remote Field Sites, W85-04667	1809 2B
<b>KIEFTTE, H.</b> Elastic Constants of Artificial and Natural Ice Samples by Brillouin Spectroscopy, W85-03346	1807 2C	KING, B. A. Predicting Sediment Deposition Patterns in Pipes with Diminishing Flow, W85-06084	1811 3F	KING, G. M. Carbon Flow Through Oxygen and Sulfate Reduction Pathways in Salt Marsh Sediments, W85-02790	1806 2L
<b>KIENE, R. P.</b> Effects of Organic Pollutants on Methanogenesis, Sulfate Reduction and Carbon Dioxide Evolution in Salt Marsh Sediments, W85-04872	1809 5C	KING, J. G. Alteration of Streamflow Characteristics Following Road Construction in North Central Idaho, W85-02372	1805 2E	KING, J. G. Alteration of Streamflow Characteristics Following Road Construction in North Central Idaho, W85-02372	1805 2E
<b>KIERSTEIN, R. A.</b> True Location and Orientation of Fractures Logged with the Acoustic Televiewer (Including Programs to Correct Fracture Orientation), W85-01780	1804 2F	KIMES, S. C. Runoff and Sediment Transport Within and From Small Agricultural Watersheds, W85-04734	1809 2J	KING, J. M. Computing Drawdown Distribution Using Microcomputers, W85-03157	1806 2F
<b>KIESSSLING, A.</b> Availability of Cadmium to Perfused Rainbow Trout Gills in Different Water Qualities, W85-06729	1812 5C				

## AUTHOR INDEX

**KING, L. D.**

**KING, L. D.**  
 General Guidelines for Land Treatment of Sludge, W85-00081 1801 5D  
 General Guidelines for Land Treatment of Wastewater, W85-00083 1801 5D  
 Land Application of Kraft Paper Mill Sludges, W85-05395 1810 5E  
 Swine Lagoon Effluent Applied to 'Coastal' Bermudagrass: II. Effects on Soil, W85-06612 1812 5D  
 Swine Lagoon Effluent Applied to 'Coastal' Bermudagrass: III. Irrigation and Rainfall Runoff, W85-06613 1812 5D  
**KING, P. E.**  
 Effects of Zinc on the Ultrastructure of the Brain Cells of the Larvae of *Clupea harengus* L., W85-03689 1807 5C  
**KING, P. H.**  
 Chemical Coagulation of Tar Sand Processing Wastewater, W85-05399 1810 5D  
 Chlorine Utilization during Trihalomethane Formation in the Presence of Ammonia and Bromide, W85-02806 1806 5B  
 Treatment of Wool Scour Wastewater: Recent Trends in New Zealand, W85-05414 1810 5D  
**KING, P. N.**  
 Identification of Critical Areas on Forest Lands for Control of Nonpoint Sources of Pollution, W85-05068 1810 2J  
**KING, R. D.**  
 Sulphide Pool and Lake Morrison, Meromictic Lakes of South-west Tasmania, W85-00871 1802 2H  
**KING, S. C.**  
 Inexpensive Balance for Measuring Throughfall in Cereals, W85-01074 1802 7B  
**KING, T. D.**  
 Effects of Dechlorinated Seawater on Fish Behavior, W85-04962 1809 5D  
**KING, W. A.**  
 Morphology and Recent Sediments of the Lower Anastomosing Reaches of the Attawapiskat River, James Bay, Ontario, Canada, W85-01734 1804 2J  
**KINGSBURY, P. D.**  
 Distribution of Fenitrothion Residues in Brook Trout (*Salvelinus fontinalis*) and Lake Trout (*Salvelinus namaycush*) Tissues Following Aerial Applications to Lac Ste-Anne, Quebec, W85-02784 1806 5C  
 Fate of Chemical Insecticides in Aquatic Environments, Forest Spraying in Canada, W85-06770 1812 5B  
**KINGSBURY, R. S. W. M.**  
 Effects of Constructing a Barrage Across the Tawe Estuary, W85-00567 1802 6G  
**KINGSLEY, J. B.**  
 Optimization of Biological Recycling of Plant Nutrients in Livestock Waste by Utilizing Waste Heat from Cooling Water, W85-06983 1812 5D  
**KINMAN, R. N.**  
 Biological Treatability of Photoprocessing Wastewater: Part I, W85-05560 1810 5D

**KINNAIRD, J. W.**  
 Chemical Composition of Rainfall and Wet Deposition over Northern Britain, W85-03295 1807 5B  
**KINNEE, D. E.**  
 Evolution of Design of Ford Motor Company Industrial Waste Treatment Facilities, W85-05397 1810 5D  
**KINNMARK, I. P. E.**  
 Exposition of the Distribution Function Used in Proving the Averaging Theorems for Multiphase Flow, W85-04169 1808 2F  
**KINZELBACH, R.**  
 Plankton and Materials Budget of the Mosel at the Enkirch Storage Basin 1981 (Plankton und Stoffhaushalt der Mosel bei der Stauhaltung Enkirch 1981), W85-05739 1810 2H  
**KIORBOE, T.**  
 Mercury Levels in Fish, Invertebrates and Sediment in a Recently Recorded Polluted Area (Nissum Broad, Western Limfjord, Denmark), W85-00801 1802 5B  
**KIORTSIS, V.**  
 Effects of Four Heavy Metals on Survival and Hatching Rate of *Artemia salina* (L.), W85-04674 1809 5C  
**KIOUNTOUZIS, E.**  
 Optimal Intraseasonal Irrigation Water Distribution, W85-04166 1808 3F  
**KIRBY, J. M.**  
 Rapid Numerical Method for Horizontal Fluid Flow in Unsaturated Soils, W85-01619 1803 2H  
**KIRBY, L. J.**  
 Role of Organics in the Subsurface Migration of Radionuclides in Groundwater, W85-06775 1812 5B  
**KIRBY, W. H.**  
 Computer Routines for Probability Distributions, Random Numbers, and Related Factors, W85-00587 1802 7C  
**KIRCHEIS, F. W.**  
 Effects of Reduced pH on Three Life Stages of Sunapee Char *Salvelinus alpinus*, W85-02780 1806 5C  
**KIRCHENGAST, M.**  
 Faunistic Investigations of the Hyporheic Intertidal of the River Mur (Styria, Austria) (Faunistische Untersuchungen im hyporheischen Intertidal des Flusses Mur (Steiermark, Österreich)), W85-03126 1806 5C  
**KIRCHER, J. E.**  
 Interpretation of Grain-Size Distributions from Measured Sediment Data, Platte River, Nebraska, W85-03214 1806 2J  
 Sediment Transport in the Lower Yampa River, Northwestern Colorado, W85-02045 1804 2J  
**KIRIHATA, T.**  
 Studies on Performance of Desalination Plant by Reverse Osmosis System - II: Effects of Inhibition of Bacterial Growth with NaHSO<sub>3</sub> on Performance of Plant (in Japanese), W85-02838 1806 3A  
**KIRK, P. W. W.**  
 Determination of Chlorinated Phenols in Water, Wastewater, and Wastewater Sludge by Capillary GC/ECD, W85-02810 1806 5A  
**KIRKALDIE, L.**  
 Dissecting a Dam, W85-04027 1808 8D  
**KIRKBY, M. J.**  
 Process Based Model of Faecal Bacterial Levels in Upland Catchments, W85-01420 1803 5B  
**KIRKHAM, M. B.**  
 Water Relations of Drought-Resistant and Drought-Sensitive Wheat Cultivars Sprinkled with Saline Water, W85-05168 1810 3F  
**KIRKHAM, R. R.**  
 Weighing Lysimeters for Long-Term Water Balance Investigations at Remote Sites, W85-02879 1806 2G  
**KIRKISH, M. H.**  
 Diurnal Cycle of Stratification in Lake Titicaca: Eddy Diffusion, W85-04567 1809 2H  
**KIRKNER, D. J.**  
 Instantaneous Equilibrium Approximation Analysis, W85-03784 1808 2F  
 Multicomponent Solute Transport with Sorption and Soluble Complexation, W85-04171 1808 5B  
 Multisolute Mass Transport with Chemical Interaction Kinetics, W85-05534 1810 5B  
**KIRPENKO, N. I.**  
 Application of Analyzer A Phi-1 to Quantitative Determination of Blue-Green Algal Toxins (Ispol'zovanie Pribora AF-1 Dlya Kolichestvennogo Opredeleniya Toksinov Sinezelenykh Vodoroslej), W85-06472 1812 5A  
**KIRSCH, E. J.**  
 Characteristics of Activated Sludge Effluents before and after Ozonation, W85-07045 1812 5E  
**KIRSCH, M.**  
 Pentachlorophenol and Tetrachlorophenols in Wadden Sediment and Clams *Mya arenaria* of the Jadebusen After a 14-Year Period of Wastewater Discharge Containing Pentachlorophenol, W85-05028 1810 5C  
**KISHI, Y.**  
 Fluctuation of the Groundwater Level and Fresh-Salt Water Interface in Response to the Tide (in Japanese), W85-00192 1801 2F  
 Studies on the Seawater Intrusion in Coastal Groundwater; II. Groundwater at the Mouth of the Kiki River (in Japanese), W85-00543 1802 2F  
**KISILEVSKII, V. V.**  
 Study of Heavy-Metal Concentration in River Runoff from Urbanized Territories, W85-04121 1808 5B  
**KISS, I.**  
 Algological Investigations in the Waters of the Tisza Basin at Alpar, W85-03115 1806 5C  
**KISS, K. T.**  
 Relationship Between the Chemical Oxygen Demand, Suspended Matter Content and Algal Count in the Eastern Main Canal (Hungary), W85-03114 1806 5C

## AUTHOR INDEX

KLOMP, R.

KISSA, E.			
Effects of Four Heavy Metals on Survival and Hatching Rate of <i>Artemia salina</i> (L.) W85-04674	1809	5C	
KITAEV, A. B.			
Some Results of Calculating the Balance of Mineral Substances of the Kama Reservoirs and its Stretches, W85-04130	1808	2H	
KITANI, K.			
Hydraulic Ram Use for Sprinkle Irrigation, W85-06088	1811	3F	
KITANIDIS, P. K.			
Analysis of the Spatial Structure of Properties of Selected Aquifers, W85-06510	1812	2F	
Application of the Geostatistical Approach to the Inverse Problem in Two-Dimensional Groundwater Modeling, W85-02169	1804	2F	
Effects of Visitation Frequency and Instrument Reliability on the Accuracy of Estimation of River Discharges, W85-02825	1806	2E	
Evaluation of the Efficiency of Streamflow Data Collection Strategies for Alluvial Rivers, W85-01170	1803	2E	
Secondary Current and River-Meander Formation, W85-03035	1806	2E	
KITANO, Y.			
Calcite Formation in Calcium Chloride Rich Water, W85-00185	1801	2K	
Water Quality and Rock Weathering in the Upper Reaches of the Tenryu River in Connection with Landslide Disasters, W85-00187	1801	2K	
KITE, G. W.			
Regulation of the White Nile, W85-01137	1803	2A	
KITE, S. W.			
Irrigation Scheduling Under Saline High Water Tables, W85-04744	1809	3F	
Spectral Analysis of Water Advance in Level Basins, W85-03380	1807	2G	
KITTREDGE, D.			
Design and Operation of Flexible Membrane Covers for Distribution Storage Reservoirs, W85-04020	1808	8A	
Traditional Approach to Water System O and M, W85-07060	1812	5F	
KITTRICK, J. A.			
Chemical Partitioning of Cadmium, Copper, Nickel and Zinc in Soils and Sediments Containing High Levels of Heavy Metals, W85-01284	1803	5B	
Elements Associated with the Cadmium Phase in a Harbor Sediment as Determined with the Electron Beam Microprobe, W85-01279	1803	5B	
KJAERNSLI, B.			
Unconventional Concepts for Dykes and Dams on Soft Clay Foundation, W85-03429	1807	8A	
KLAIBER, J. A.			
Predicting Ground-Water Response to Precipitation, W85-02260	1805	2F	
KLAMT, A.			
Nomogram for Calculating Water Temperature and Additional Evaporation Losses in Thermally Polluted Surface Water (Ein Nomogramm zur Berechnung der Wassertemperatur und der Zusätzlichen Verdunstungsverluste Thermisch Belasteter Gewässer), W85-04325	1808	5B	
KLAPPER, H.			
Results of Limnological Research and Their Application in Water-Management Practice (Ergebnisse Limnologischer Forschung und ihre Anwendung in der Wasserwirtschaftlichen Praxis), W85-04323	1808	2H	
KLAPWIJK, A.			
Experimental Measurement of Sediment Nitrification and Denitrification in Hamilton Harbour, Canada, W85-02070	1804	2H	
Model for Lake-Bay Exchange Flow, W85-06864	1812	2L	
KLAPWIJK, S. P.			
Application of Derivative Spectroscopy in Bioassays Estimating Algal Available Phosphate in Lake Sediments, W85-02615	1805	5A	
Available Phosphorus in Lake Sediments in the Netherlands, W85-02092	1804	2H	
KLAUDA, R. J.			
Evaluation of the Potential Toxicity of Treated Bleached Kraft Mill Effluent To Striped Bass ( <i>Morone saxatilis</i> Walbaum) Larvae Exposed Through Metamorphosis to the Juvenile Stage, W85-02908	1806	5C	
KLAUSING, R. L.			
Availability of Hydrologic Data in San Juan County, New Mexico, W85-03961	1808	2E	
Data for Ground-Water Studies of the San Juan Basin, New Mexico (1982-83), W85-02034	1804	7C	
KLAUSNITZER, B.			
Qualitative and Quantitative Entomofaunistic Investigation of an Opencast Residual Lake near Leipzig (GDR), W85-04906	1809	2H	
KLAVERKAMP, J. F.			
Tolerance and Resistance to Cadmium in White Suckers ( <i>Catosomus commersoni</i> ) Previously Exposed to Cadmium, Mercury, Zinc, or Selenium, W85-00886	1802	5C	
KLEIN, H.			
Attenuation of Stormwater Contaminants from Highway Runoff within Unsaturated Limestone, Dade County, Florida, W85-03912	1808	5B	
Attenuation of Stormwater Contaminants from Highway Runoff within Unsaturated Limestone, Dade County, Florida, W85-03944	1808	5B	
KLEIN, T. M.			
Effect of Simulated Acid Precipitation on Nitrogen Mineralization and Nitrification in Forest Soils, W85-02956	1806	5C	
KLEIN, W.			
Influence of Tetrachloroethylene on the Biota of Aquatic Systems: Toxicity to Phyto- and Zooplankton Species in Compartments of a Natural Pond, W85-02196	1805	5C	
KLOMP, R.			
Modelling the Eutrophication Process of Lake IJssel, W85-00578	1802	5C	
Longterm Effects of the Herbicides Atrazine and Dichlobenil upon the Phytoplankton Density and Physico-chemical Conditions in Compartments of a Freshwater Pond, W85-01967	1804	5C	
KLEINER, C. F.			
Toxicity of Fenitrothion to Fathead Minnows ( <i>Pimephales promelas</i> ) and Alternative Exposure Duration Studies with Fenitrothion and Endosulfan, W85-02421	1805	5C	
KLEMETSON, S. L.			
Dynamic Optimization of Regional Wastewater Treatment Systems, W85-07041	1812	5D	
Treatment of Saline Wastewaters Using a Rotating Biological Contactor, W85-04289	1808	5D	
KLEPOV, V. I.			
Determination of the Firm Yield of a System of Reservoirs for Water Supply, W85-00490	1801	6A	
KLEPPEL, G. S.			
Population Growth Patterns of Skeletonema costatum and Nutrient Levels in the Lower East River, New York, U.S.A., W85-00397	1801	5C	
KLICH, M. G.			
Effect of Gibberellic Acid on the Buoyancy of <i>Spirodela intermedia</i> W. Koch, W85-05610	1810	5G	
KLIMA, K. S.			
Integrating Water Quality and Construction Grants Management, W85-02583	1805	5G	
KLIMAS, C. V.			
Effects of Permanently Raised Water Tables on Forest Overstory Vegetation in the Vicinity of the Tennessee-Tombigbee Waterway, W85-06993	1812	6G	
KLIMOV, S. M.			
Characteristics of the Operation of the Mechanical Equipment of the Dam of the Krasnoyarsk-2 Hydroelectric Station, W85-00438	1801	8C	
KLING, G. W.			
Acid Precipitation in the Colorado Front Range: An Overview with Time Predictions for Significant Effects, W85-02856	1806	2K	
KLINGER, H.			
Water Quality and Stocking Density as Stressors of Channel Catfish ( <i>Ictalurus punctatus</i> Raf.), W85-00234	1801	3F	
KLINGSTEDT, G.			
Physiological Disturbances in Rainbow Trout, <i>Salmo gairdneri</i> (R.) Exposed at Two Temperatures of Effluents from a Titanium Dioxide Industry, W85-00883	1802	5C	
KLOBERDANZ, R. L.			
Unified Culvert Scour Determination, W85-03013	1806	8B	
KLODPENG, T.			
Drainage of a Tropaqalif before and after Water Extraction by a Crop, W85-00754	1802	2G	
KLOHN, E. J.			
Piezometer-Friction Cone Investigation at a Tailings Dam, W85-03428	1807	8A	

## AUTHOR INDEX

**KLOMP, R.**

Some Ecological Consequences of a Projected Deep Reservoir in the Kabalebo River in Suriname,  
W85-01764 1804 6G

**KLONOWSKI, R. S.**  
Application of a New Environmentally Acceptable Cooling Water Treatment,  
W85-05991 1811 5F

**KLOPPFER, W.**  
Environmental Model Segment Approach for Estimating Potential Environmental Concentrations, I. The Model,  
W85-02699 1806 5B

Environmental Model Segment Approach for Estimating Potential Environmental Concentrations, II. Application of the Model to p-Dichlorobenzene and Trichloroethene,  
W85-02700 1806 5B

**KLOSIEWSKI, S. P.**  
Responses of Fish Populations to Mitigation Structures in Two Small Channelized Streams in Ohio,  
W85-05877 1811 6G

**KLOSOWSKI, S.**  
Typhetum angustifoliae and Typhetum latifoliae as Indicators of Various Habitats,  
W85-04614 1809 2L

**KLOTZ, R. L.**  
Influence of Light on the Alkaline Phosphatase Activity of *Selenastrum capricornutum* (Chlorophyceae) in Streams,  
W85-04849 1809 2H

**KLUG, M. J.**  
Sulfate Reducers Can Outcompete Methanogens at Freshwater Sulfate Concentrations,  
W85-00098 1801 2H

**KLUSEK, C. S.**  
Trace Element Concentrations in the Dorsal Muscle of White Suckers and Brown Bullheads from Two Acidic Adirondack Lakes,  
W85-06889 1812 5C

**KLUTE, A.**  
Application of the Potential Concept to Soil Water Equilibrium and Transport,  
W85-05178 1810 2G

Predictor-Corrector Method for Measurement of Hydraulic Conductivity and Membrane Conductance,  
W85-02870 1806 2G

Unsaturated Soil Hydraulic Properties from Redistribution of Injected Water,  
W85-03386 1807 2G

**KLYUKINA, E. A.**  
Abiotic Environmental Factors and Primary Production of Water Bodies of the Kovda River Basin (Abioticheskie Faktory Stedy i Pervichnaya Produktsiya Vodoemov Basina r. Kovdy),  
W85-06480 1812 2H

**KMET, P.**  
Chemical Characteristics of Leachate from Municipal Solid Waste Landfills in Wisconsin,  
W85-05371 1810 5E

**KNAP, A. H.**  
Chemistry of Western Atlantic Precipitation at the Mid-Atlantic Coast and on Bermuda,  
W85-00520 1802 2K

**KNAPP, A. K.**  
Water Relations and Growth of Three Grasses During Wet and Drought Years in a Tallgrass Prairie,  
W85-04068 1808 2I

**KNAPP, H. V.**  
Monthly Evaporation for Milford Lake in Kansas,  
W85-01507 1803 2D

**KNAPP, J. L.**  
Fish Mortality Following Application of Phenhoato to Florida Citrus,  
W85-00135 1801 5C

**KNAPP, K. C.**  
Reuse of Agricultural Drainage Waters: An Economic Analysis,  
W85-02978 1806 3C

Salinity and Uniformity of Water Infiltration as Factors in Yield and Economically Optimal Water Application,  
W85-00750 1802 3C

**KNAPP, R. D.**  
Gravity Filtration for Reduction of Suspended Metals in a Lime Precipitation Treatment System,  
W85-05235 1810 5D

**KNATZ, G.**  
Port Solves Environmental Problems,  
W85-06176 1812 5C

**KNEEBONE, W. R.**  
Luxury Water Use by Bermudagrass Turf,  
W85-06189 1812 2D

**KNEESE, A.**  
Impacts, Costs, and Techniques for Mitigation of Contaminated Groundwater: A Review,  
W85-03982 1808 5G

**KNELISSEN, J. H.**  
Application of the UASB-Reactor for Anaerobic Treatment of Paper and Board Mill Effluent,  
W85-07005 1812 5D

**KNEPP, A.**  
Project Success: Sensitivity to Project Assumptions, 'The Medellin Case',  
W85-07000 1812 6A

**KNESCHKE, H.**  
Manipulation of the Pelagic Food Web by Stocking with Predaceous Fishes,  
W85-02565 1805 4A

**KNEZOVICH, J. P.**  
Toxicity of Copper to the Adult and Early Life Stages of the Freshwater Clam, *Corbicula manilensis*,  
W85-02193 1805 5C

**KNIE, J.**  
Toxic Situation to Daphnids in the Lower Wupper River - A Supplemental Method of Water Quality Surveillance (Die daphnientoxische Situation in der Unteren Wupper - Eine erganzende Methode der Gewassergutuberwachung),  
W85-00963 1802 5C

**KNIGHT, D. H.**  
Water and Nutrient Outflow from Contrasting Lodgepole Pine Forests in Wyoming,  
W85-04882 1809 2I

**KNIGHT, D. W.**  
Boundary Shear in Symmetrical Compound Channels,  
W85-03010 1806 8B

Calibration Studies Concerning a One-Dimensional Numerical Tidal Model with Particular Reference to Resistance Coefficients,  
W85-03635 1807 2L

Note on Flow Structure in the Great Ouse Estuary,  
W85-03107 1806 2L

**KNIGHT, J.**  
Determination of Fenthion Residues in Samples of Marine Biota and Seawater from Laboratory Exposures and Field Applications,  
W85-06581 1812 5A

**KNIGHTON, A. D.**  
Indices of Flow Asymmetry in Natural Streams: Definition and Performance,  
W85-02456 1805 2E

**KNIGHTON, R. E.**  
Effects of Water and Salt Stress on Growth and Acetylene Reduction in Alfalfa,  
W85-03962 1808 2I

**KNIPSCHILD, F. W.**  
Long-term Groundwater Protection with Plastic Linings (Langfristiger Grundwasserschutz mit Kunststoffdichtungsbahnen),  
W85-04633 1809 5G

**KNISEL, W. G.**  
Approximate Method for Partitioning Daily Streamflow Data,  
W85-03758 1807 2A

**KNOCH, B. C.**  
Predicting Direct Recharge of Surficial Aquifers,  
W85-06080 1811 2F

**KNOCHEL, A.**  
Results of an Interlaboratory Test for Heavy Metals in Elbe Water (Ergebnisse einer Ringanalyse von Elbwasser auf Schwermetalle),  
W85-01607 1803 5A

**KNOOP, K. D.**  
Storm Runoff and Water Quality on Three Ephemeral Washes in the Price River Basin, Utah,  
W85-01325 1803 5C

**KNOWLTON, M. F.**  
Flow-Through Microcuvette for Fluorometric Determination of Chlorophyll,  
W85-03146 1806 7B

Sources of Variability in Phosphorus and Chlorophyll and Their Effects on Use of Lake Survey Data,  
W85-01383 1803 2H

**KNOX, S.**  
Statistical Analysis of Estuarine Profiles: II Application to Arsenic in the Tamar Estuary (S.W. England),  
W85-01914 1804 5B

**KNUDSEN, E. E.**  
Method for Measuring Stream Flows in Rivers,  
W85-03833 1808 7B

**KNUTH, D. J.**  
Choosing Sewage Ash Disposal Sites in the Twin Cities Metropolitan Area,  
W85-05366 1810 5D

**KNUTH, M. L.**  
Acute Toxicity of Selected Substituted Phenols, Benzenes and Benzoic Acid Esters to Fathead Minnows *Pimephales promelas*,  
W85-02751 1806 5C

Toxicity, Uptake, and Elimination of the Herbicides Alachlor and Dinoseb in Freshwater Fish,  
W85-01296 1803 5C

**KNUTSON, T. R.**  
Sufficient Conditions for River Meandering: A Simulation Approach,  
W85-03566 1807 2E

**KNUUTINEN, J.**  
Acute Toxicity of Some Chlorinated Phenolic Compounds to *Selenastrum capricornutum* and Phytoplankton,  
W85-04366 1808 5C

**KOBAYASHI, A.**  
Determination of Trialkyltin, Dialkyltin, and Triphenyltin Compounds in Environmental Water and Sediments,  
W85-04340 1808 5A

**AUTHOR INDEX**

KONDA, T.

<b>KOBAYASHI, D.</b> Separation of the Snowmelt Hydrograph by Stream Temperatures, W85-05538	1810 2E	<b>KOE, L. C. C.</b> Ambient Hydrogen Sulphide Levels at a Wastewater Treatment Plant, W85-05765	1810 5B	Physical Model of the Aquatic Ecosystem, W85-04850	1809 2H
<b>KOBAYASHI, N.</b> Riprap Stability Under Wave Action, W85-07079	1812 8B	<b>KOERNER, R. M.</b> Eigenvalue Technique for Solute Transport, W85-03004	1806 5B	<b>KOKSVIK, J. I.</b> Effects of Rotenone Treatment on the Benthic Fauna of a Small Eutrophic Lake, W85-02653	1805 5C
<b>KOBAYASI, H.</b> Separated Distribution of the Two Varieties of <i>Achanthes minutissima</i> Kuettz. According to the Degree of River Water Pollution, W85-06001	1811 5C	<b>KOGA, M.</b> Biological Wastewater Treatment in a Fluidized Bed Reactor, W85-07110	1812 5D	<b>KOLAVALLI, S.</b> Physical and Economic Impacts of Sedimentation on Fishing Activities; Nam Pong Basin, Northeast Thailand, W85-04448	1809 5C
<b>KOBLENTZ, R. R.</b> PCB Congener Analysis of Water and Caddisfly Larvae (Insecta: Trichoptera) in the Upper Hudson River by Glass Capillary Chromatography, W85-04350	1808 5A	<b>KOGAEV, V. P.</b> Estimation of the Fatigue Life of Lock-Gate Elements of the Moscow Canal, W85-01141	1803 8C	<b>KOLBERG, D. W.</b> Fracture Trace Analysis to Increase the Probability of Locating Groundwater for Murray County, Georgia, W85-06313	1812 2F
<b>KOBYLINSKI, E. A.</b> Treatment of Pesticide-Laden Wastewater by Recirculation Through Activated Carbon, W85-06781	1812 5D	<b>KOGAN, E. A.</b> Creep of Concrete under Multiaxial Compression, W85-00492	1801 8F	<b>KOLEGA, J. J.</b> Ground Water Monitoring at a Septage Lagoon Facility in Connecticut, W85-00365	1801 5B
<b>KOCH, D. L.</b> Limnology of a Desertic Terminal Lake, Walker Lake, Nevada, U.S.A., W85-04064	1808 2H	<b>KOH, E. S.</b> Microcomputer Programs for Designing Water Systems, W85-01903	1804 8A	<b>KOLICHKO, A. V.</b> Stability of Slopes of Construction Cuts in Rubble Soils, W85-00482	1801 8D
<b>KOCH, F. D.</b> Recycling Undiluted Dragout from Toxic Plating Solutions, W85-05242	1810 5F	<b>KOHCHI, N.</b> Step-functional Change in Annual Peak Flow Illustrated for the Ishikari River at Hashimotocho, Hokkaido, W85-00928	1802 4A	<b>KOLLA, E.</b> Rainfall-Runoff Model for Small Basins (Ein Niederschlag/Abfluss-Modell fur Kleine Einzugsgebiete), W85-01268	1803 2A
<b>KOCH, R.</b> Problems in Water Contamination and its Analytical Understanding (Probleme der Wasserkontamination und ihrer analytischen Erfassung), W85-06267	1812 5A	<b>KOHL, R. A.</b> Drop Size Distributions for a Low Pressure Spray Type Agricultural Sprinkler, W85-06096	1811 3F	<b>KOLLIG, H. P.</b> Integrated Use of Physical and Mathematical Models to Evaluate Ecological Effects, W85-05699	1810 5C
<b>KOCH, R. W.</b> Stochastic Streamflow Model Based on Physical Principles, W85-06508	1812 2A	<b>KOHLER, A.</b> Effects of Copper Chelate on Photosynthesis and Some Enzyme Activities of <i>Eloëda canadensis</i> , W85-01083	1802 5C	<b>KOLLMAYER, M. J.</b> Protect and Monitor Groundwater, W85-03744	1807 5G
<b>KOCHANOV, I. F.</b> Mechanical Equipment of Gate Chambers of High-Head Spillways, W85-00484	1801 8A	<b>KOHLHORST, D. W.</b> Decline of Striped Bass in the Sacramento-San Joaquin Estuary, California, W85-06403	1812 5C	<b>KOLOSEUS, H. J.</b> Scour Due to Riprap and Improper Filters, W85-03005	1806 8B
<b>KOCHENDERFER, J.</b> Laboratory Investigation of Leachate Chemistry from Six Appalachian Forest Floor Types Subjected to Simulated Acid Rain, W85-06721	1812 2K	<b>KOHONEN, T.</b> Automatic Monitoring of River Water Quality, W85-01407	1803 5A	<b>KOLTERMANN, C. R.</b> LP Embedded Simulation Model for Conjunctive Use Management Optimization, W85-01801	1804 4B
<b>KOCHINA, T. A.</b> Control of Azov Sea Salinity by Regulating Water Exchange in the Kerch Strait, W85-04103	1808 5G	<b>KOHLENZ, T.</b> Influence of Sampling Frequency on the Estimates of Runoff Water Quality, W85-04930	1809 7B	<b>KOLTON-SHAPIRA, R.</b> Rainwater pH in the Vicinity of Hadera Power Plant, Israel During the Winter Season of 1981-1982, W85-03597	1807 5A
<b>KOCK, H. H.</b> Determination of Cl-, NO <sub>3</sub> - and SO <sub>4</sub> <sup>2-</sup> in Pore Waters of Sediments, W85-06756	1812 2K	<b>KOHN, R. A.</b> New Instrumentation in Automatic Water Quality Monitoring, W85-02007	1804 5G	<b>KOMARINSKII, M. V.</b> Improvement of the Construction of Earth Structures, W85-01144	1803 8D
<b>KOCK, U. V.</b> Cryptogams of Flowing Waters - Bioindicators of Water Quality (Fließgewässerkryptogamen - Bioindikatoren der Wasserqualität), W85-06525	1812 5A	<b>KOIDE, M.</b> Metal and Transuranic Records in Mussel Shells, Byssal Threads and Tissues, W85-00666	1802 5A	<b>KOMATSU, Y.</b> Fate of 2,4,6-Trichlorophenol, Pentachlorophenol, p-Chlorobiphenyl, and Hexachlorobenzene in an Outdoor Experimental Pond: Comparison between Observations and Predictions Based on Laboratory Data, W85-03227	1807 5B
<b>KODOMARI, S.</b> Studies of the Internal Wave in Small Lakes (II) - Effect of the Lake Basin Shape on the Internal Wave - (in Japanese), W85-05998	1811 2H	<b>KOJIMA, T.</b> U.S. Mussel Watch: 1977-1978 Results on Trace Metals and Radionuclides, W85-00669	1802 5B	<b>KOMMUNAR, G. M.</b> Kinetics of Iron Oxidation During Groundwater Filtration in the Groundwater Conductor (Zur Kinetik der Oxydation von Eisen bei der Filtration von Grundwasser im Grundwasserleiter), W85-03533	1807 5F
<b>KODUKULA, P. S.</b> Distribution of Cadmium and Nickel in Activated Sludge Systems, W85-05428	1810 5D	<b>KOIVO, L.</b> Zinc in Water and Sediments of Two Finnish Lakes, W85-02065	1804 5B	<b>KOMORITA, J. D.</b> Technical Note: Monochloramine Removal from Water by Activated Carbon, W85-05477	1810 5F
Metals Distributions in Activated Sludge Systems, W85-01737	1804 5D	<b>KOKORIN, A. O.</b> South African Estuaries and Their Importance to Fishes, W85-02837	1806 2L	<b>KONDA, T.</b> Seasonal Variations in Four Bacterial Size Fractions from a Hypertrophic Pond in Tokyo, Japan, W85-04912	1809 2H

## AUTHOR INDEX

**KONDO, K.**

**KONDO, K.**  
Quantitative Analysis of Phosphorus Cycle in the Shallow Brackish Lake Nakanoumi, Japan, W85-00761 1802 2H

Seasonal and Areal Features of the Lagoonal Environment in Lake Nakanoumi, a Shallow Coastal Lagoon in Japan, W85-01476 1803 6G

**KONDO, S.**  
Littoral Survey of the Chironomidae in Reservoirs of Nagoya City and Suburbs, W85-00539 1802 5C

**KONDRADEV, V. M.**  
Calculation of the Seepage of Reservoir Dikes of Pumped-Storage Stations, W85-00444 1801 8B

Dynamics of the Formation of an Ice Prism on Reservoir Slopes of a Pumped-Storage Station, W85-00441 1801 8A

Wind and Wave Regimes of the Kiev Pumped-Storage Station Reservoir, W85-00449 1801 4A

**KONDRAIEFF, P. F.**  
Nutritive Quality and Size Fractions of Natural Seston in an Impounded River, W85-02897 1806 2H

Seston Microbial Activity in a River-Reservoir System, W85-02249 1805 2H

Stressed Stream Ecosystem: Macroinvertebrate Community Integrity and Microbial Trophic Response, W85-00415 1801 5C

**KONECNY, F.**  
Extreme Value Processes and the Evaluation of Risk in Flood Analysis, W85-06561 1812 2E

**KONIG, W. A.**  
Quantification of Volatile Sulfur Compounds Related to the Corrosion of Concrete Sewers, W85-01128 1803 5C

**KONOP, D.**  
Predicting Water Circulation in Delaware Bay and River: NOAA's New Approach, W85-03338 1807 2L

**KONOPKA, A.**  
Excretion of Photosynthetically Fixed Organic Carbon by Metalimnetic Phytoplankton, W85-05876 1811 2H

Primary and Bacterial Production in Two Dimictic Indiana Lakes, W85-05507 1810 2H

Seasonal Bacterial Production in a Dimictic Lake as Measured by Increases in Cell Numbers and Thymidine Incorporation, W85-05508 1810 2H

Thymidine Incorporation by Free-Living and Particle-Bound Bacteria in a Eutrophic Dimictic Lake, W85-05509 1810 2H

**KONRAD, J. G.**  
Nonpoint Pollution Control: The Wisconsin Experience, W85-05947 1811 5G

**KONSTANTINOV, A. S.**  
Use of Zeolite to Remove Toxic Substances from Nitrogen Metabolism of Fishes, W85-02281 1805 5F

**KONTIS, A. L.**  
Representation of Multiaquifer Well Effects in Three-Dimensional Ground-Water Flow Simulation, W85-00316 1801 4B

**KOOB, R. D.**  
Hydrogeochemical Aspects of Surface Mine Reclamation in the Northern Great Plains, W85-06076 1811 4C

**KOOL, H. J.**  
Formation and Removal of Mutagenic Activity During Drinking Water Preparation, W85-01728 1804 5F

Mutagenic Activity Associated with By-Products of Drinking Water Disinfection by Chlorine, Chlorine Dioxide, Ozone and UV-Irradiation, W85-01216 1803 5C

Presence, Introduction and Removal of Mutagenic Activity During the Preparation of Drinking Water in the Netherlands, W85-01217 1803 5F

**KOON, J. H.**  
Evaluation of Chloroform Removal in a Biological Treatment System to Meet BAT Limits, W85-05434 1810 5D

**KOONCE, J.**  
Effects of Siltation on Embryonic Mortality of Trout, W85-06311 1812 5C

**KOONZ, W. H.**  
Status of Colonial Waterbirds Nesting in Southern Manitoba, W85-06844 1812 2H

**KOOPMANS, R. W. R.**  
Steady Two-Dimensional Groundwater Seepage: Numerical Analysis in the Phi-, Psi-Plane, W85-01616 1803 2F

**KOPANICA, M.**  
Techniques of Electrochemical Determination of Organic Pollutants in Water, W85-02311 1805 5A

**KOPFLER, F. C.**  
Identification and Measurement of Components in Gasoline, Kerosene, and No. 2 Fuel Oil that Partition into the Aqueous Phase after Mixing, W85-02199 1805 5B

Influence of the Time of Acidification after Sample Collection on the Preservation of Drinking Water for Lead Determination, W85-07088 1812 5A

**KOPPE, P.**  
Cadmium Balance and Restoration Strategy for a River Basin, W85-01409 1803 5D

**KOPPELMAN, L. E.**  
Long Island Segment of the Nationwide Urban Runoff Program, W85-00058 1801 5B

**KORABLEVA, A. I.**  
Characteristics of the Distribution of Organic Matter in Middle Dnepr Reservoirs, W85-04129 1808 2H

**KORCHIN, S. R.**  
Dorr-Oliver's Fixed-Film, Suspended-Growth Anaerobic Systems for Industrial Wastewater Treatment and Energy Recovery, W85-05283 1810 5D

**KORFIATIS, G. P.**  
Modeling for Design of Landfill Bottom Liners, W85-03803 1808 5G

Moisture Transport in a Solid Waste Column, W85-02276 1805 5B

**KORKELA, H.**  
Occurrence of Faecal Coliforms, Faecal Streptococci and Salmonella in the Waste Water of Three Abattoirs in Finland 1980-1983, W85-03681 1807 5A

**KORNEEV, I. A.**  
Effect of Mechanical Aeration of Intra-Water-Body Processes in a Stratified Lake (Vliyanie Iskusstvennoi Aeratsii na Vnutrivozdomnye Protsessy v Stratifitsirovannom Ozere), W85-06471 1812 5G

**KORNEV, YU. P.**  
Characteristics of the State of Stress and Strain of the Gravity Dam at the Kurpsai Hydroelectric Station, W85-00427 1801 8A

**KORONKEVICH, N. I.**  
Geographic Approaches to Study of the Effect of Interbasin Water Transfers on Natural Conditions, W85-04146 1808 6G

**KOROTKEVICH, O. E.**  
Quick Method of Field Observations of Wastewater Spreading in Lakes, W85-05161 1810 5A

**KORTE, F.**  
Effects of Dichlobenil and Atrazine to the Population Density of Zooplankton in an Aquatic Outdoor System (Wirkung von Dichlobenil und Atrazin auf die Populationsdichte von Zooplankton in einem aquatischen Freilandssystem), W85-02739 1806 5C

Influence of Tetrachloroethylene on the Biota of Aquatic Systems: Toxicity to Phyto- and Zooplankton Species in Compartments of a Natural Pond, W85-02196 1805 5C

Long-term Effects of 1,2,4-Trichlorobenzene on Freshwater Plankton in an Outdoor-Model-Ecosystem, W85-07154 1812 5C

Longterm Effects of the Herbicides Atrazine and Dichlobenil upon the Phytoplankton Density and Physico-chemical Conditions in Compartments of a Freshwater Pond, W85-01967 1804 5C

**KORTTMANN, R. W.**  
Epiplimnetic Nutrient Loading by Metalimnetic Erosion and Resultant Algal Responses in Lake Waramaug, Connecticut, W85-02093 1804 2H

**KORVIN, A. J.**  
Application of a New Environmentally Acceptable Cooling Water Treatment, W85-05991 1811 5F

**KORWIN-KOSSAKOWSKI, M.**  
Effect of Temperature on Survival of Carp Fry, Cyprinus carpio L., in Acidic Water, W85-05623 1810 5C

**KORYAK, M.**  
Vascular Ripple Flora of Appalachian Streams: The Ecology and Effects of Acid Mine Drainage on *Justicia americana* (L.) Vahl, W85-04884 1809 5C

**KOS, L.**  
Irradiation in Industrial Waste Treatment, W85-03726 1807 5D

**KOSCHEL, R.**  
Model Use and Verification of Ecological Parameters for an Oligotrophic Lake (Lake Stechlin, G.D.R.), W85-05602 1810 2H

**KOSCHMIEDER, U.**  
Results and Experience of the Greiz Water-Supply District in the Field of Rational Water Use (Ergebnisse und Erfahrungen des Versorgungsbereichs Greiz bei der rationellen Wasserverwendung), W85-01880 1804 3D

## AUTHOR INDEX

<b>KOSEFF, J. R.</b>							<b>KOZHAVA, O. M.</b>	
Circulation Structure in a Stratified Cavity Flow, W85-05787	1810	2H						
<b>KOSI, G.</b>								
Effect on Water Chemistry and Phytoplankton of Artificial Inflow of the River Radovna into Lake Bled (Yugoslavia), W85-01473	1803	5G	Brief Review of Kriging and its Application to Optimal Interpolation and Observation Well Selection, W85-05003	1810	2F	Dynamics and Composition of Silt Deposits in the North Donets-Donbas Canal, W85-04101	1808	2J
<b>KOSICHENKO, YU. M.</b>								
Calculation of the Watertight Efficiency of Lining with Film Membrane, W85-02232	1805	8G	Investigation of Outliers in Annual Maximum Flow Series, W85-01171	1803	2E			
<b>KOSINSKA, E.</b>								
Removal of Nitrogen from Industrial Wastewaters with the Use of Algal Rotating Disks and Denitrification Packed Bed Reactor, W85-02425	1805	5D	<b>KOUTANIEMI, L.</b>					
<b>KOSINSKI, R. J.</b>								
Comparison of the Accuracy and Precision of Several Open-water Oxygen Productivity Techniques, W85-04390	1808	2H	Role of Ground Frost, Snow Cover, Ice Break-up and Flooding in the Fluvial Processes of the Oulanka River, NE Finland, W85-06806	1812	2J			
Effect of Terrestrial Herbicides on the Community Structure of Stream Periphyton, W85-03046	1806	5C	<b>KOVITITONSKY, V. G.</b>					
<b>KOSOV, A. E.</b>								
Ion-Scanning Potentiometry-A Method for Determination of Zinc, Cadmium, Lead and Copper Traces in Marine and Interstitial Water (Ion-Skaniruyushchaya Potentsiometriya - Metod Opredeleniya Malykh Kolichestv Tsinka, Kadmiya, Sintsa i Medi v Morskoi Ilovoi Vode), W85-06454	1812	5A	Estuarine Mean Flow Estimation Revisited: Application to the St. Lawrence Estuary, W85-05736	1810	2L			
<b>KOSSATZ, K.</b>								
Manipulation of the Pelagic Food Web by Stocking with Predacious Fishes, W85-02565	1805	4A	Variability of the Near-Surface Residual Current in the Lower St. Lawrence Estuary, W85-00516	1802	2L			
<b>KOSSON, D. S.</b>								
In-Situ and On-Site Biodegradation of Industrial Landfill Leachate, W85-02769	1806	5D	<b>KOVACHEV, S. G.</b>					
<b>KOSTE, W.</b>								
Structure and Dynamics of Zooplankton Communities, Alligator Rivers Region, N.T., Australia, W85-02405	1805	2H	Changing Macroinvertebrate Community Structure and Diversity in an Organically Loaded River during Its Selfpurification, W85-03101	1806	5C			
<b>KOSTER, E. P.</b>								
Consumer Panels Monitor Taste of Water in Rotterdam, W85-00708	1802	5F	Some Principles of the Structure and Organization of the Hydrobiological Monitoring of Rivers (O Nekotoryx Printsipax Strukturni i Organizatsii Gidrobiologicheskogo Monitoringa Rek), W85-02102	1806	7A			
<b>KOSZALKA, E. J.</b>								
Altitude of the Top of the Matawan Group-Magothy Formation, Suffolk Country, Long Island, New York, W85-02030	1804	7B	<b>KOVACS, G.</b>					
<b>KOTER, S.</b>								
Ions and Water Transport Across Charged Naion Membranes. Irreversible Thermodynamics Approach, W85-02551	1805	3A	Extension of a Streamflow Time Series by Regression (Verlangerung einer Zeitreihe des Durchflusses mit Hilfe eines Regressionsmodells), W85-04807	1809	2E			
<b>KOTHARI, B. K.</b>								
Concentration and Surface Morphology of Charcoal Particles in Sediments of Green Lake, N.Y.: Implications Regarding the Use of Energy in the Past, W85-00937	1802	5B	Proposal to Construct a Coordinating Matrix for Comparative Hydrology, W85-05007	1810	7A			
<b>KOTREKHOV, E. P.</b>								
On-Site Investigations and Numerical Modeling of Wind Setup and Setdown Phenomena in the Mouth Region of the Enisei River, W85-05154	1810	2E	Water Quality Control, W85-00086	1801	5G			
<b>KOVACS, M.</b>								
Microelement Content of Some Submerged and Floating Aquatic Plants, W85-04678	1809	2H	<b>KOVACS, T. G.</b>					
<b>KOVAL, E. J.</b>								
Application of a Physically-Based Distributed Parameter Model for Arid-Zone Surface-Groundwater Management, W85-03752	1807	4B	Chlorinated Phenolics of Bleached Kraft Mill Origin: An Olfactory Evaluation, W85-00559	1802	5A			
<b>KOVDA, V. A.</b>								
To Prevent Aridization, Combat Salinity, W85-00646	1802	6G	<b>KOVEN, H. C.</b>					
<b>KOVEN, H. C.</b>								
Salinity and Alfalfa Yield under Effluent Irrigation in Southwestern Saskatchewan, W85-02802	1806	3C	Optimization of the Hydrobotanic Method of Wastewater Treatment to Remove Aromatic Amines by Mathematical Experimental Design Methods, W85-04140	1808	5D			

## AUTHOR INDEX

**KOZLOSKI, R. P.**

**KOZLOSKI, R. P.**  
Organic Pollutants in Leachates from Landfill Sites,  
W85-01280 1803 5B

**KOZLOV, V. A.**  
Hydropower Utilization Scheme of the Euphrates River in Syria,  
W85-00504 1801 4A

**KOZLOV, V. V.**  
Development of Finite-Amplitude Disturbances in Poiseuille Flow,  
W85-03750 1807 8B

**KOZLOVKAYA, V. I.**  
Brain Acetylcholinesterase and Backbone Collagen in Fish Intoxicated with Organophosphate Pesticides,  
W85-02888 1806 5C

**KOZLOWSKI, T. T.**  
Flooding and SO<sub>2</sub> Stress Interaction in Betula papyrifera and B. nigra Seedlings,  
W85-00292 1801 2I

Plant Responses to Flooding of Soil,  
W85-00126 1801 2I

**KOZMA, A.**  
Mineral Substances of Aquatic and Terrestrial Vegetation in the Storage Tank at Kiskore,  
W85-03119 1806 5B

**KOZMINSKI, J.**  
Reverse-Osmosis Membrane for Testing Coal-Liquefaction Wastewater,  
W85-00284 1801 5D

**KOZUB, G. C.**  
Soil Salinity Status and its Relation to Some of the Soil and Land Properties of Three Irrigation Districts in Southern Alberta,  
W85-06151 1811 4A

**KRAEMER, D. F.**  
Epidemiology Study of the Use of Asbestos-Cement Pipe for the Distribution of Drinking Water in Escambia County, Florida,  
W85-02709 1806 5C

**KRAJEWSKI, W. F.**  
Graphical Technique for River Water Temperature Predictions,  
W85-01117 1802 2H

**KRALJ, M.**  
Applicability of Some Numerical Methods and the Evaluation of Bryophyta Indicator Species for the Comparison of the Degree of Pollution Between Two Rivers,  
W85-02238 1805 5A

**KRAMAR, O.**  
Uptake and Accumulation of Inorganic Tin by a Freshwater Alga, *Ankistrodesmus falcatus*,  
W85-03598 1807 5C

**KRAMBECK, H.-J.**  
Solar Energy and Quanta in Baltic Lakes,  
W85-00767 1802 2H

**KRAMER, H. A.**  
Size Classes of 'Dissolved' Nutrients in Shallow, Alkaline, Humic and Eutrophic Tjeukemeer, The Netherlands, as Fractionated by Ultrafiltration,  
W85-04450 1809 2K

**KRAMER, R. A.**  
Evaluation of Alternative Policies for Controlling Agricultural Nonpoint Source Pollution,  
W85-04989 1810 6B

**KRAMER, R. E.**  
Anaerobic Incubation of Membrane Filter Cultures for Improved Detection of Fecal Coliforms from Recreational Waters,  
W85-02595 1805 5A

Analysis of Sample Preparation Procedures for Enumerating Fecal Coliforms in Coarse Southwestern U.S. Bottom Sediments by the Most-Probable-Number Method,  
W85-02942 1806 5A

**KRANENBURG, C.**  
Wind-Induced Entrainment in a Stably Stratified Fluid,  
W85-03037 1806 2E

**KRANZ, J. M. S.**  
Toxicologic Studies Associated with the Agricultural Use of Municipal Sewage Sludge and Health Effects among Sewage Treatment Plant Workers,  
W85-04776 1809 5E

**KRAPAC, I. G.**  
Assessment of Potential Agricultural and Industrial Uses of a Lime Water-Softening Waste Slurry,  
W85-05385 1810 5G

**KRASIL'NIKOV, N. A.**  
Evaluation of the Engineering-Geological Properties of Clay Foundations of Earth Dams,  
W85-06594 1812 8D

**KRASNER, S. W.**  
Determination of Subnanogram per Liter Levels of Earthy-Musty Odorants in Water by the Salted Closed-Loop Stripping Method,  
W85-01126 1803 5A

Tastes and Odors: The Flavor Profile Method,  
W85-06582 1812 5F

**KRASNIK, I. L.**  
Optimization of the Filling and Drawdown Regimes of a Regulating Reservoir of the Kuban' Cascade,  
W85-00485 1801 3B

**KRASNIKOV, N. D.**  
Seismic Stability of the Mingechaur Dam,  
W85-03578 1807 8A

**KRASNOFF, P. J.**  
Sludge Reduction by In-Plant Process Modification: New York City's Experiences,  
W85-07039 1812 5E

**KRASZEWSKI, A. K.**  
Graphical Technique for River Water Temperature Predictions,  
W85-01117 1802 2H

**KRATZER, C. R.**  
Application of Nutrient Loading Models to the Analysis of Trophic Conditions in Lake Okeechobee, Florida,  
W85-00977 1802 5B

**KRATZER, K.**  
Cumulation of Zinc, Cadmium and Mercury on the Alga *Scedesmus obliquus*,  
W85-06268 1812 5C

**KRAUSE, D. JR.**  
Concentration and Isotopic Fractionation of Oxygen Dissolved in Freshwater and Seawater in Equilibrium with the Atmosphere,  
W85-01334 1803 2K

**KRAUSE, G.**  
Method to Measure Suspended Load Transports in Estuaries,  
W85-04675 1809 2L

**KRAUSE, R. E.**  
Comparison of Aquifer Characteristics Derived from Local and Regional Aquifer Tests,  
W85-06819 1812 2F

**KRAUTER, C.**  
Sprinkler System Choices: Center Pivot Or,  
W85-01039 1802 3F

**KRAUTH, K.**

Pilot Scale Studies on Enhanced Biological Phosphorus Removal in an Activated Sludge Treatment Plant with Nitrification and Predenitrification (Untersuchungen über die biologische Phosphor-Elimination in einer halbtechnischen Versuchsanlage mit weitgehender Nitrifikation und vorgeschalteter Denitrifikation),  
W85-05042 1810 5D

**KREFT, P.**

Converting from Chlorine to Chloramines: A Case Study,  
W85-05474 1810 5F

**KREIS, R. G. JR.**

Influence of the St. Marys River Plume on Northern Lake Huron Phytoplankton Assemblages,  
W85-01756 1804 2H

**KREISSL, J. F.**

Alternative Sewer Systems in the United States,  
W85-05201 1810 5D

Onsite Wastewater Systems Policy and Regulations in the USA,  
W85-05198 1810 5D

**KREITLER, C. W.**

Interpretation of Pressure-Depth from Confined Underpressured Aquifers Exemplified by the Deep-Basin Brine Aquifer, Palo Duro Basin, Texas,  
W85-06507 1812 2F

Nitrogen-Isotope Analysis of Groundwater Nitrate in Carbonate Aquifers: Natural Sources versus Human Pollution,  
W85-00023 1801 5B

**KREMER, E.**

Energy and Materials Recovery Options for the Textile Industry,  
W85-05241 1810 5D

**KREMPEL, A. G.**

Colorado Snow: A Resource and a Responsibility,  
W85-05480 1810 4A

**KREMPEL, R. E.**

Utility Approach to Comprehensive Stormwater Management,  
W85-06125 1811 4A

**KRENEK, D. L.**

Design, Start-Up, and Operation of an Ozone Disinfection Unit,  
W85-03866 1808 5D

**KRENKEL, P. A.**

Water Quality Modelling and Water Resources Planning,  
W85-01426 1803 6A

**KRETSCHMER, H.**

Relative Leaf Water Content and Stress Index as a Criterion of the State of the Water Supply in Sugar Beet Under Field Conditions (Relativer Blattwassergehalt und Stressindex als Kriterium des Wasserversorgungszustandes bei Zuckerrüben unter Feldbedingungen),  
W85-03610 1807 2I

**KREZOSKI, J. R.**

Dual Radiotracer Measurement of Zoobenthos-Mediated Solute and Particle Transport in Freshwater Sediments,  
W85-02964 1806 2J

**KRICHTEN, D.**

Biological Phosphorus and Nitrogen Removal Via the A/O Process: Recent Experience in The United States and United Kingdom,  
W85-03644 1807 5D

**KRICHTEN, D. J.**

Pilot Plant Demonstration of Biological Phosphorus Removal,  
W85-01657 1804 5D

## AUTHOR INDEX

KUCERA, J.

**KRIEGER, D. A.**  
Aquatic Biota of Bank Stabilization Structure on the Missouri River, North Dakota, W85-06902 1812 6G

**KRIEGER, K. A.**  
Benthic Macroinvertebrates as Indicators of Environmental Degradation in the Southern Near-shore Zone of the Central Basin of Lake Erie, W85-00926 1802 5A

**KRIEKEMANS, B.**  
Use of Polyurethane Grouts and Grout Tubes, W85-04031 1808 8F

**KRIKELIS, V.**  
Seasonal Distribution of Enteroviruses and Adenoviruses in Domestic Sewage, W85-05742 1810 5B

**KRIPALANI, R. H.**  
Analysis and Prediction of Short Period Droughts During Summer Monsoon over India, W85-05085 1810 2B

**KRISCHKER, P.**  
Influence of Low Concentrations of Cadmium, Copper and Zinc on Phytoplankton of Natural Water Samples, W85-02803 1806 5C

**KRISHNAN, A.**  
Analysis of Trends in the Rainfall and Droughts Occurring in the Southwest Monsoon and Northeast Monsoon Systems in the Southern Peninsular India, W85-05087 1810 2B

**KRISHNAPPAN, B. G.**  
Modeling of Unsteady Flows in Alluvial Streams, W85-05782 1810 2E  
River Mixing - A State-of-the-Art Report, W85-04050 1808 5B  
Suspended Sediment Distribution in Wave Field, W85-01501 1803 2J

**KRISTENSEN, G. H.**  
Nitrification and Phosphorus Removal From Trickling Filter Effluents, W85-03646 1807 5D

**KRISTMANSON, D. D.**  
Importance to Mussels of the Benthic Boundary Layer, W85-03600 1807 2H

**KRIVIC, P.**  
Survey of a Coastal Karstic Aquifer by Analysis of the Effect of the Sea-tide: Example of the Kras of Slovenia, Yugoslavia, W85-03980 1808 2F

**KROHELSKI, J. T.**  
Water in Sand and Gravel Deposits in McHenry County, Illinois, W85-03907 1808 2K

**KROISS, H.**  
Anaerobic Treatment of Fibre Board Mill Wastewater, W85-07023 1812 5D  
Anaerobic Treatment of Sulfite Pulp Mill Effluents, W85-07011 1812 5D  
Anaerobic Treatment of Viscose Wastewater, W85-07016 1812 5D

**KROLOW, M. R.**  
Groundwater: A Survey of Contamination Potential in the Fox Valley Region, W85-00830 1802 5B

**KROMKAMP, J. C.**  
Seston-Epilobion Interrelationships in the Shallow Eutrophic Loosdrecht Lakes (The Netherlands), W85-04547 1809 2H

**KRONELD, R.**  
Recovery and Reproducibility in Determination of Volatile Halocarbons in Water and Blood, W85-06526 1812 5A

**KROON, J. M. W.**  
Available Phosphorus in Lake Sediments in the Netherlands, W85-02092 1804 2H

**KROON, J. R.**  
Water Hammer: Causes and Effects, W85-03626 1807 8B

**KROONTJE, W.**  
Effects of Anaerobically Digested Poultry Manure on Soil Phosphorus Adsorption and Extrusability, W85-06622 1812 5D

**KROPOTKIN, M. A.**  
Effect of Oil Pollution on Processes Occurring in Water Basins, W85-05151 1810 5C

**KROTHER, N. C.**  
Sulfur Isotopes and Hydrochemical Variations in Spring Waters of Southern Indiana, U.S.A., W85-00022 1801 2F

**KROUSE, H. R.**  
Isotope Geochemistry of Stratified Lake 'A', Ellesmere Island, N.W.T., Canada, W85-03195 1806 2H

**KROUSHI, P. W.**  
Demand Reduction: Water Conservation Through Leak Detection, W85-04691 1809 3D

**KROUTIL, W. F.**  
Water Conservation through Limited Irrigation of Corn and Grain Sorghum in the Great Plains, W85-01952 1804 3F

**KRUERGER, T.**  
Evaluation of the Polubarinova-Kochina Formula for the Dam Problem, W85-05803 1810 2F

**KRUERGER, T. J.**  
Iron and Steel Industry Consent Decree; Implementing the Bubble Policy under the Clean Water Act, W85-06530 1812 5G

**KRUG, E. C.**  
Comparison of Water and Dilute Acid Treatment on Organic and Inorganic Chemistry of Leachate from Organic-Rich Horizons of an Acid Forest Soil, W85-00219 1801 5B

**KRUG, W. R.**  
Digital Model for Streamflow Routing by Convolution Methods, W85-03942 1808 2E

**KRULIK, J. W.**  
Computer Program for a Trilinear Diagram Plot and Analysis of Water Mixing Systems, W85-00360 1801 5A

**KRULIKAS, R. K.**  
Altitude of the Top of the Matawan Group-Magothy Formation, Suffolk County, Long Island, New York, W85-02030 1804 7B

**KRUMGALZ, B. S.**  
Mercury Pollution in Sediments, Benthic Organisms and Inshore Fishes of Haifa Bay, Israel, W85-04863 1809 5B

**KRUPA, S. V.**  
Analysis of the Chemical Properties of Rain in Minnesota, W85-00246 1801 2K

Measurements of S(IV) and Organic Anions in Minnesota Rain, W85-02731 1806 5B

**KRUPKA, M.**  
Factors Affecting Alkaline Phosphatase Activity in a Lake (Short-Term Experiments), W85-00226 1801 2H

**KRUPNICK, A. J.**  
Policies for Nonpoint-Source Water Pollution Control, W85-05943 1811 5G

**KRUPNIK, M. YA.**  
New Method of Determining the Stable Cross Section of a Channel in Cohesionless Soils, W85-00473 1801 8B

**KRUPSKII, K. N.**  
Study of Heavy-Metal Concentration in River Runoff from Urbanized Territories, W85-04121 1808 5B

**KRUSS, P.**  
Secular Variation of Ice Flow Velocity at Lewis Glacier, Mount Kenya, Kenya, W85-00676 1802 2C

**KRUTILLA, J. V.**  
Forest Management for Increased Timber and Water Yields, W85-01338 1803 3B

**KRYLOV, V. S.**  
Use of a Helium Survey for Evaluating the State of Groundwaters, W85-04110 1808 2F

**KRYLOVA, I. N.**  
Intensity of Denitrification in the Rybinsk Reservoir Grounds (Intensivnost' Demitifikatsii v Gruntakh Rybinskogo vodokhranilishcha), W85-06481 1812 2J

**KRYN, J.-P.**  
Flood Protection in the Loire Valley Downstream Vienne Confluence (Protection des Vals de Loire en Aval de la confluence avec la Vienne), W85-02355 1805 4A

**KUBIAK, J.**  
Nitrogen, Phosphorus and Primary Production in the Pomeranian Bay, W85-06270 1812 2L

**KUBO, E.**  
Further Studies on the Zooplankton Community of a Eutrophic Reservoir in Southern Brazil, W85-05648 1810 2H

**KUBOTA, H.**  
Change in Microbial Numbers During Thermophilic Composting of Sewage Sludge with Reference to CO<sub>2</sub> Evolution Rate, W85-04259 1808 5E

Characteristics of Mesophilic Bacteria Isolated during Thermophilic Composting of Sewage Sludge, W85-04260 1808 5E

Effect of Seeding During Thermophilic Composting of Sewage Sludge, W85-05513 1810 5D

Thermodynamic Properties of R13 (CClF<sub>3</sub>), R23 (CHF<sub>3</sub>), R152a (C<sub>2</sub>H<sub>4</sub>F<sub>2</sub>) and Propane Hydrates for Desalination of Sea Water, W85-03890 1808 3A

**KUBULNICKS, E.**  
Wastewater Treatment at a Swedish Cardboard Factory: Possible Cost Savings, W85-05259 1810 5D

**KUCERA, J.**  
Xylem Water Flow in a Crack Willow Tree (*Salix fragilis* L.) in Relation to Diurnal Changes of Environment, W85-02900 1806 2I

## AUTHOR INDEX

KUCHENRITTER, R. D.

KUCHENRITTER, R. D.  
Economic Comparison of Composting and Dual  
Utilization,  
W85-02300 1805 5E

KUDEYAROV, V. N.  
Study of Landscape-Agrogeochemical Balance  
of Nutrients in Agricultural Regions: Part III.  
Nitrogen,  
W85-02923 1806 5B

KUDREVATYKH, V. G.  
Use of Equalizing Racks in the Outlet Sections  
of Draft Tubes of Hydroelectric and Pumped-  
Storage Stations,  
W85-05823 1810 8C

KUEHL, D. W.  
Tetrachloro-9H-Carbazole, a Previously Unrec-  
ognized Contaminant in Sediments of the Buffalo  
River,  
W85-00927 1802 5C

KUENZLER, E. J.  
Effects of Stream Channelization on Exports of  
Nitrogen and Phosphorus from North Carolina  
Coastal Plain Watersheds,  
W85-00979 1802 6G

KUETHER, A.  
Epilimnetic Nutrient Loading by Metalimnetic  
Erosion and Resultant Algal Responses in Lake  
Waramaug, Connecticut,  
W85-02093 1804 2H

KUFFNER, A. C.  
Transport and Transformations of Organic  
Chemicals,  
W85-06451 1812 5B

KUGE, Y.  
Determination of Trialkyltin, Dialkyltin, and  
Triphenyltin Compounds in Environmental  
Water and Sediments,  
W85-04340 1808 5A

KUHL, D.  
Check Weir at Kehl/Strassburg and the Lateral  
Polders of the River Rhine Near Altenheim  
(Das Kulturwehr Kehl/Strassburg und die Sei-  
tenpolder des Rheins bei Altenheim),  
W85-03437 1807 4A

KUHLES, H.  
Friedrichroda Wastewater Treatment Facility -  
Results of an Experiment (Klaranlage Friedrich-  
roda - Ergebnisse eines Experiments),  
W85-01884 1804 5D

KUILE, M.  
Availability to Plants of Phosphate in Sludges  
Precipitated from the Effluent from Sewage  
Treatment,  
W85-04597 1809 5E

KUIVASNIEMI, K.  
Acute Toxicity of Some Chlorinated Phenolic  
Compounds to *Selenastrum capricornutum* and  
Phytoplankton,  
W85-04366 1808 5C

KUIVILA, K. M.  
Organic Matter Diagenesis in Freshwater Sediment:  
The Alkalinity and Total CO<sub>2</sub> Balance  
and Methane Production in the Sediments of  
Lake Washington,  
W85-03876 1808 2H

KUJAWSKI, W.  
Ions and Water Transport Across Charged  
Nafion Membranes Irreversible Thermodynam-  
ics Approach,  
W85-02551 1805 3A

KUKLA, G.  
Comparative Utility of Microwave and Short-  
wave Satellite Data for All-Weather Charting of  
Snow Cover,  
W85-03492 1807 7B

KULANDAIVELU, R.

Probability Analysis of Rainfall and Evolving  
Cropping System for Coimbatore,  
W85-05074 1810 2B

KULKARNI, A. K.  
Most Severe Rainstorm of India - a Brief Ap-  
praisal,  
W85-01139 1803 2B

KULKARNI, G. K.  
Effect of Some Molluscicides on the Rate of  
Survival and Oxygen Consumption of a Fresh-  
water Leech, *Poecilobdella viridis* (Blanchard),  
W85-04376 1808 5C

KUMAN, S.  
Survival Adaptations of Three Euphorbia spp. in  
Arid Ecosystem,  
W85-06371 1812 2I

KUMAR, A.  
Chemical Composition of Rain Water with Spec-  
ial Reference to Heavy Metals over Lucknow,  
Uttar Pradesh in 1981,  
W85-05101 1810 2K

Pollution and Saprobic Status of Eastern Kalin-  
adi,  
W85-00798 1802 5C

KUMAR, K. D.  
Subsampling Program for the Estimation of Fish  
Impingement,  
W85-04604 1809 5C

KUMAR, K. K.  
Nature of Primary Production in a Tropical  
Backwater of the Southwest Coast of India,  
W85-04079 1808 2L

KUMAR, S.  
Organal Damage Caused by Aldicarb to a  
Freshwater Teleost *Barbus conchonius* Hamil-  
ton,  
W85-01091 1802 5C

KUMAR, T. S.  
Growth Studies of *Azolla pinnata* RBr. in a  
Permanent Pond,  
W85-05447 1810 5D

KUMAR, U. D. J.  
Differential Performance of *Cleome gynandra*  
L. (C4) and *C. speciosa* L. (C3) under Water,  
Stress and Recovery,  
W85-03219 1807 2I

KUME, J. J.  
Depth and Thickness of Selected Units in Upper  
Permian, Upper Jurassic, and Lower Cretaceous  
Rocks in Southwestern Kansas,  
W85-03921 1808 2F

KUNDELL, J. E.  
Municipal Use of Existing Wells for Supplemental  
Water Supply in the Piedmont and Blue  
Ridge Provinces of Georgia,  
W85-06318 1812 6C

KUNDU, S. S.  
Improvement and Sensitivity Analysis of the  
CORNGRO Model,  
W85-01304 1803 3F

KUNES, T. P.  
Leaching Behavior of Lead and Cadmium at  
Various pH Conditions,  
W85-05370 1810 5E

KUNISHI, H. M.  
Sediment, Season, and Salinity Effects on Phos-  
phorus Concentrations in an Estuary,  
W85-06727 1812 5C

KUNKLE, G. R.  
Oil Spill Focuses Attention on the Problems of a  
Man-Made Recreational Lake,  
W85-01650 1804 5B

KUNREUTHER, H.

Interactive Computer Modeling for Policy Anal-  
ysis; The Flood Hazard Problem,  
W85-05490 1810 6A

KUNTE, H.  
Isolation of Organic Material from Water,  
W85-07150 1812 5A

KUNZE, R. J.  
Automating a Class A Evaporation Pan for  
Semi-Continuous Recording,  
W85-01065 1802 2D

KUNZEL, R. G.  
Techniques and Equipment Used in Contami-  
nant Detection at Hoe Creek Underground Coal  
Gasification Experimental Site,  
W85-03182 1806 7B

KUNZI, K.  
Comparative Utility of Microwave and Short-  
wave Satellite Data for All-Weather Charting of  
Snow Cover,  
W85-03492 1807 7B

KUO, A. Y.  
Dredge Induced Turbidity Plume Model,  
W85-07078 1812 6G

KUO, C. J.  
Catalytic Oxidation of Munitions Wastewater,  
W85-05423 1810 5D

KUO, E. M.  
Influence of Organic Shock Loads on the Per-  
formance of an Anaerobic Fluidized Bed  
System,  
W85-05558 1810 5D

KUPARINEN, J.  
Assessing Phytoplankton and Bacterioplankton  
Production During Early Spring in Lake Erken,  
Sweden,  
W85-03738 1807 2H

KUPEC, J.  
Possibility of Treatment of Wastewater from  
Artificial Leather Production with the Help of  
Algae (Möglichkeiten der Nachreinigung von  
Abwassern aus der Kunstlederproduktion mit  
Hilfe von Algen),  
W85-06263 1812 5D

KUPPUSAMY, T.  
Finite Element Analyses of Lock and Dam 26  
Cofferdam,  
W85-06025 1811 8A

KURANO, N.  
Model System of Bulking and Flocculation in  
Mixed Culture of *Sphaerotilus* sp. and *Pseudo-  
monas* sp. for Dissolved Oxygen Deficiency and  
High Loading,  
W85-07115 1812 5D

KURASHINA, H.  
Comparison of Water Catchment and Storage  
Systems in Two Micronesian Atoll Communi-  
ties: Laura and Nama,  
W85-02028 1804 6D

KURBANOV, M. K.  
Use of Groundwater Isotopic Parameters for  
Classifying Structural and Hydrogeological  
Stages of the Platform Area of Dagestan,  
W85-04094 1808 2F

KUREK, S.  
Stream Ecosystems in Mountain Grassland (West  
Carpathians); 2. Hydrological Characteristics,  
W85-02513 1805 2E

KURELEC, B.  
Chromosomal Aberrations in Onion (*Allium  
cepa*) Induced by Water Chlorination By-Products,  
W85-04348 1808 5C

## AUTHOR INDEX

		LA TOUCHE, M. C. D.
KURIHARA, M.		
Reaction Kinetics of Sodium Bisulfite and Dissolved Oxygen in Seawater and Their Applications to Seawater Reverse Osmosis,	W85-03973	1808 3A
KURIHARA, Y.		
Effects of the Oligochaete Branchiura sowerbyi Beddard (Tubificidae) on the Biological and Chemical Characteristics of Overlying Water and Soil in a Submerged Ricefield Soil System,	W85-01482	1803 2H
Study of Domestic Sewage Waste Treatment by the Polychaetes, <i>Neanthes japonica</i> and <i>Perinerellis nuntia</i> var. <i>vallata</i> , on an Artificial Tidal Flat,	W85-04903	1809 5D
KURIYAMA, M.		
Some Properties of Mucilage Polysaccharides Extracted from Sewage Activated Sludge,	W85-04252	1808 5D
KURKLIN, J. K.		
Oklahoma: Summary of Activities of the U.S. Geological Survey, Water Resources Division, Oklahoma District, 1983,	W85-03922	1808 10C
KURT, C. E.		
Permeability of Grout Seals Surrounding Thermoplastic Well Casing,	W85-00321	1801 8F
KURTZ, B. A.		
Beden Brook Intensive Stream Survey, Spring/Summer, 1982: Intensive Survey No. 823404,	W85-00817	1802 5A
KUSAKA, Y.		
Studies on Chemical Species Dissolved in Groundwaters from the Neogene Strata. A Comparison between Shallow and Deep Groundwaters (in Japanese),	W85-00537	1802 2F
KUSAKABE, O.		
Studies on Chemical Species Dissolved in Shallow Groundwaters of Arima Rhyolite Strata,	W85-02251	1805 2K
KUSERIK, F. T.		
Centrifuge Model Tests on Bearing Capacity of Clay,	W85-03813	1808 8D
KUSHNER, D. J.		
Benthic Bacterial Biomass Supported by Streamwater Dissolved Organic Matter,	W85-04088	1808 2H
KINOSHITA, S.		
In Situ Measures of Dissolved Organic Carbon Flux in a Rural Stream,	W85-01493	1803 2H
KUSS, F. R.		
Investigation of the Carrying Capacity of the Monocacy River as a Scenic and Recreational Resource, Volume I. Maryland Scenic Rivers: The Monocacy Resource Summary Report,	W85-00607	1802 6G
KUZNETSOV, V. A.		
Resource, Volume III. The Monocacy River—Analysis of Existing Situation and Recommendations for Protecting the River Resource,	W85-00073	1801 6D
KUSSY, E. V. A.		
Wetland and Floodplain Protection and the Federal-Aid Highway Program,	W85-00911	1802 6E
KUTAS, T.		
Submodels for the Nutrient Loading Estimation on River Zala,	W85-05604	1810 5B
KUTERA, J.		
Wastewater Disposal and Utilization in Agriculture in Poland and Hungary,	W85-04664	1809 5E
KUTTER, B. L.		
Earthquake Deformation of Centrifuge Model Banks,	W85-03812	1808 8D
KUTTY, M. N.		
Effects of Pentachlorophenol (Na PCP) on Survival, Activity and Metabolism in <i>Rhinomugil corsula</i> (Hamilton), <i>Cyprinus carpio</i> (Linnaeus) and <i>Tilapia mossambica</i> (Peters),	W85-00990	1802 5C
KUTYRIN, I. M.		
Main Directions in Protecting Waters from Pollution,	W85-06712	1812 5D
KUTZNER, C.		
Design and Construction of the Agus IV Power Cavern, Part One: Geotechnical Investigations,	W85-01544	1803 8E
KUWLAK, J. S.		
Design and Construction of the Agus IV Power Cavern, Part Two: Design and Construction,	W85-01552	1803 8A
KUUL', I. S.		
Investigation of the Stability of River and Canal Channels,	W85-04422	1809 2J
KUUSISTO, E.		
Bifurcations of Finnish Watercourses (Suomen Vesistöjen Bifurkaatio),	W85-05856	1811 2E
KUWABARA, J. S.		
Copper Transport along a Sierra Nevada Stream,	W85-00719	1802 5B
KUWAMOTO, T.		
Ion Chromatographic Determination of Silicic Acid in Natural Water,	W85-04623	1809 2K
KUWATA, K.		
Trace Determination of Aldehydes in Water by High-Performance Liquid Chromatography,	W85-04622	1809 5A
KUZ'KIN, V. S.		
Experience in Constructing Radial Wells in Fine Sands,	W85-00447	1801 8D
KUZ'MIN, K. K.		
Diversion of Stream Through Hydroelectric Stations with High Dams During Construction,	W85-00487	1801 8A
KUZ'MIN, S. S.		
Mathematical Model of the Process of Pollutant Removal in Rotating Disk Biofilters,	W85-05160	1810 5D
KUZIN, I. P.		
Artificial Seismicity, Conditions and Possible Mechanism of Occurrence of Dam Earthquakes,	W85-00466	1801 6G
KUZNETSOVA, M. A.		
Fluctuation in the Abundance of Commercial Fishes Influenced by Regulated River Discharge (as Exemplified by Kuybyshev Reservoir),	W85-02847	1806 6G
KUZNIAK, R. L.		
Water-Resources Investigations in North Dakota—Fiscal Year 1984,	W85-03909	1808 10C
KVESETH, N.		
Time Trends of Organochlorine Chemical Residues in Seven Sedentary Marine Fish Species from a Norwegian Fjord during the Period 1972–1982,	W85-04365	1808 5B
KWAIKOWSKI, R. E.		
Comparison of 1980 Lake Huron, Georgian Bay - North Channel Surveillance Data with Historical Data,	W85-04062	1808 2H
KWAN, K. K.		
Microbiological Examination of Lake Erie and Lake Ontario Sediments,	W85-00403	1801 2H
KWIATKOWSKA, B.		
Marine Pollution from Land-Based Sources: Current Problems and Prospects,	W85-04188	1808 6E
KWIK, J. K.		
Mortality of Zooplankton Resulting from Temperature Regimens Encountered in Once-Through Cooling Systems,	W85-06862	1812 5C
KWOK, T. T.		
Heavy Metals in <i>Ulva lactuca</i> Collected within Tolo Harbour, An Almost Landlocked Sea,	W85-01762	1804 5B
KYLE, D. E.		
Vertical Distribution of Potentially Pathogenic Free-Living Amoebae in Freshwater Lakes,	W85-06135	1811 2H
KYNARD, B.		
Mortality of Adult American Shad Passing Through a 17-Megawatt Kaplan Turbine at a Low-Head Hydroelectric Dam,	W85-05879	1811 6G
L'VOVA, M. N.		
Method of Determining the Maximum Flood Inflow to the Middle Enisei Hydroelectric Station,	W85-00479	1801 4A
L'VOVICH, M. I.		
Geographic Approaches to Study of the Effect of Interbasin Water Transfers on Natural Conditions,	W85-04146	1808 6G
LA CARO, F.		
Toxic Substances Monitoring Program, 1982,	W85-06329	1812 5A
LA TOUCHE, M. C. D.		
Cost Sharing in a Multipurpose Water Project,	W85-04778	1809 6C

## AUTHOR INDEX

**LAAK, R.**

**LAAK, R.**  
Economic, Legal and Institutional Relations Involved in Diversion and Other Interbasin Transfers,  
W85-06304 1812 6A

Economic, Legal and Institutional Relations Involved in Diversion and Other Interbasin Transfers,  
W85-06307 1812 6A

**LAAKSONEN, R.**  
Changes in Ionic Distributions in Finnish Lake Water During the Period 1968-1983,  
W85-06296 1812 5C

Changes in Water Quality in Finnish Lakes 1965-1982,  
W85-06295 1812 5C

Critical Oxygen Concentration of Finnish Lakes,  
W85-05064 1810 2H

**LAANE, R.**  
Transportation of Water, Particulate and Dissolved Organic and Inorganic Matter between a Salt Marsh and the Ems-Dollard Estuary, The Netherlands,  
W85-02655 1805 2L

**LAAT, J. DE**  
Mode of Action of Chlorine Dioxide on Organic Compounds in an Aqueous Medium; Chlorine Dioxide Consumption and Reactions on Phenolic Compounds (Mode d'Action du Bdioxyde de Chlore sur les Composes Organiques en Milieu Aquatique; Consommations de Bdioxyde de Chlore et Reactions sur les Composes Phenoliques),  
W85-04302 1808 5F

**LABA, J. T.**  
Reinforced Earth Retaining Wall Under Vertical and Horizontal Strip Loading,  
W85-03423 1807 8D

**LABADIE, J. W.**  
Real Time Irrigation Scheduling via 'Reaching' Dynamic Programming,  
W85-02155 1804 3F

**LABOUNTY, J. F.**  
Assessment of the Environment Effects of Constructing the Three Gorge Project on the Yangtze River,  
W85-03700 1807 6G

Effects of Operating the Mt. Elbert Pumped-Storage Powerplant on Twin Lakes, Colorado: 1981 Report of Findings,  
W85-05304 1810 2H

**LACASSE, S.**  
Unconventional Concepts for Dykes and Dams on Soft Clay Foundation,  
W85-03429 1807 8A

**LACEY, R. F.**  
Lead in Water, Infant Diet and Blood: the Glasgow Duplicate Diet Study,  
W85-06548 1812 5C

**LACHANCE, M.**  
Multivariate Analysis of Parameters Related to Lake Acidification in Quebec,  
W85-02981 1806 5B

**LACK, G. L.**  
Gears for Pumped-Storage Units,  
W85-02676 1805 8C

**LACOCK, D. L.**  
Water Resources Data, Kansas Water Year 1982,  
W85-01932 1804 2E

**LACONDE, K.**  
Process Design Manual for Land Application of Municipal Sludge,  
W85-05127 1810 5D

**LACROIX, G. L.**

Survival of Eggs and Alevins of Atlantic Salmon (*Salmo salar*) in Relation to the Chemistry of Interstitial Water in Redds in Some Acidic Streams of Atlantic Canada,  
W85-04845 1809 5C

**LACROIX, S. J.**

Survival and Detection of *Bacteroides spp.*, Prospective Indicator Bacteria,  
W85-04262 1808 5A

**LADD, J. M.**

California State Mussel Watch, 1981-1983, Biennial Report,  
W85-06333 1812 5C

**LADEWSKI, T. B.**

Influence of the St. Marys River Plume on Northern Lake Huron Phytoplankton Assemblages,  
W85-01756 1804 2H

**LAFONT, M.**

Oligochaete Communities as Biological Descriptors of Pollution in the Fine Sediments of Rivers,  
W85-02771 1806 5C

**LAFRANCE, J.**

Solar Energy and Hydroelectric Power Generation in the Dead Sea: A Dynamic Analysis,  
W85-03548 1807 6B

**LAGVANKAR, A. I.**

Removal of Chelated Nickel from Wastewaters,  
W85-05430 1810 5D

**LAHL, U.**

Determination of Organohalogenic Acids in Water Samples (Bestimmung Halogenorganischer Säuren in Wasserproben),  
W85-01663 1804 5A

Pollution on the River Rhine with Halogenated Organic Compounds; an Investigation During a 'Fliessende Welle',  
W85-04360 1808 5A

**LAI, H.**

Water Flea (*Daphnia magna*) as a Sensitive Indicator for the Assessment of Toxicity of Synthetic Detergents,  
W85-02943 1806 5C

**LAI, P. W.**

Effects of the Yorkshire Rivers on Dissolved Oxygen in the Humber Estuary,  
W85-01397 1803 5B

**LAIBLE, J. P.**

Finite Element/Finite Difference Wave Model for Depth Varying Nearly Horizontal Flow,  
W85-03474 1807 2H

**LAIKARI, H.**

New Goals and Strategy Adopted in Finland for the Protection of Rivers,  
W85-01423 1803 6G

Study and Developmental Project for Lessening the Drawbacks of River Construction Works in Finland,  
W85-02385 1805 6G

**LAITINEN, M.**

Acidification of Water and Extrahepatic Biotransformation in Fish,  
W85-02591 1805 5C

**LAITY, J. E.**

Sapping Processes and the Development of Theater-Headed Valley Networks on the Colorado Plateau,  
W85-05729 1810 2J

**LAKE, P. S.**

Ecological Effects of Mine Effluents on the South Esk River, North-eastern Tasmania; III. Benthic Macroinvertebrates,  
W85-00782 1802 5C

Macroinvertebrate Assemblages in Channelized and Unchannelized Sections of the Bunyip River, Victoria,  
W85-00788 1802 6G

Trace Metal Concentrations in Fish from the South Esk River, Northeastern Tasmania, Australia,  
W85-02418 1805 5C

**LAKRITZ, Y.**

Rainwater pH in the Vicinity of Hadera Power Plant, Israel During the Winter Season of 1981-1982,  
W85-03597 1807 5A

**LALCHANDANI, A.**

Field Observations on the Occurrence of New Indicators of Disinfection Efficiency,  
W85-06224 1812 5A

Removal of New Indicators by Coagulation and Filtration,  
W85-04833 1809 5F

**LALITHAMBIKA DEVI, C. B.**

Development and Ecodisaster: A Lesson from Cochon Backwater System,  
W85-00580 1802 5C

**LAM, D. C. L.**

Finite Element Analysis of a Radioactive Tritium Patch and a Waste Heat Plume Observed near the Pickering Nuclear Power Generating Station, Lake Ontario,  
W85-01359 1803 5B

Mass Balance Models of Phosphorus in Sediments and Water,  
W85-02071 1804 2J

**LAM, H. V.**

Process Design Manual for Land Application of Municipal Sludge,  
W85-05127 1810 5D

**LAM, L.**

Saturated-Unsaturated Transient Finite Element Seepage Model for Geotechnical Engineering,  
W85-04173 1808 8B

**LAM, S.**

Utilities Delivery for the Indian and Inuit Affairs Program,  
W85-04916 1809 6B

**LAMARCHE, A.**

Lack of Effect of Arsenic on Phytoplankton Communities in Different Nutrient Conditions,  
W85-00888 1802 5C

**LAMARRA, V. A.**

Responses of Model Freshwater Ecosystems to Crude Oil,  
W85-06219 1812 5C

**LAMB, J. A.**

Crop Moisture Stress Analysis Using Computer-Controlled Environmental Chambers and Simulated Weather Sequences,  
W85-06097 1811 2I

**LAMB, J. C. III.**

Treatability of a Coal Gasification Wastewater Using the Powdered Activated Carbon/Activated Sludge Process,  
W85-05270 1810 5D

**LAMB, T. E.**

Report of the Annual Yield of the Arkansas River Basin for the Arkansas River Basin Compact, Arkansas-Oklahoma, 1983 Water Year,  
W85-03951 1808 2E

Water Resources Data, Arkansas, Water Year 1982,  
W85-01934 1804 2E

**LAMBERT, B. F.**

Water Resources Data, Arkansas, Water Year 1982,  
W85-01934 1804 2E

## AUTHOR INDEX

**LANGSTON, W. J.**

<b>LAMBERT, J. R.</b> Corn Irrigation Scheduled by Tensiometer and the Lambert Model in the Humid Southeast, W85-03358	1807 2I	(France) (Evolution de la Qualite de la Riviere Oise lors de sa Retention dans le Bassin de 'Storage' de Mery (France)), W85-05635	1810 2H	Plankton of an Acid-Stressed Lake (Kejimkujik National Park, Nova Scotia, Canada); Part 1, Design and Water Chemistry Results of an Enclosure Experiment, W85-02637	1805 2H
<b>Dynamics of Water in Zea mays L.: Sensitivity Analysis of TROIKA,</b> W85-03372	1807 2I	Primary Production and its Fate in the Storage Basin of Mery-sur-Oise, W85-05634	1810 2H	<b>LANE, R. W.</b> Effects of Visitation Frequency and Instrument Reliability on the Accuracy of Estimation of River Discharges, W85-02825	1806 2E
<b>LAMBERT, M.</b> Priority Pollutant Removal by Activated Sludge Treatment: Monitoring Phenols from Dye and Pigment Waste, W85-05265	1810 5D	<b>LANDAU, M.</b> Acute Toxicity of EDB and Aldicarb to Young of Two Estuarine Fish Species, W85-01455	1803 5C	Evaluation of the Efficiency of Streamflow Data Collection Strategies for Alluvial Rivers, W85-01170	1803 2E
<b>LAMBERT, V. A.</b> Turbidity Currents in Lakes: Oxygen-Input by Underflowing River Water (Trubstromme in Seen: Sauerstoffeintrag Durch Grundnah Eingeschichtetes Flusswasser), W85-04073	1808 2H	<b>LANDAU, YU. A.</b> Multipurpose Use and Protection of Water Resources in Power Complexes Including Nuclear Power Stations, W85-04090	1808 6G	<b>LANE, R. W. P. M.</b> Utility of Organic Matter in the Ems-Dollard Estuary, W85-01625	1803 2L
<b>LAMBERTI, P.</b> Probability Distributions of Annual Maxima of Seasonal Hydrological Variables, W85-05906	1811 2E	<b>LANDIN, V. P.</b> System of Practices for Preventing Water by Agricultural Chemicals, W85-04619	1809 5G	<b>LANG, C.</b> eutrophication of Lakes Leman and Neuchatel (Switzerland) Indicated by Oligochaete Communities, W85-02772	1806 2H
<b>LAMBERTS, L.</b> Pond Sediments as Historical Record of Heavy Metals Fallout, W85-00548	1802 5B	<b>LANDINE, P. G.</b> Simulating Infiltration into Frozen Prairie Soils in Streamflow Models, W85-06702	1812 2G	<b>LANG, G. E.</b> Influence of Wetlands and Coal Mining on Stream Water Chemistry, W85-04011	1808 5B
Stable Lead Isotopes in Pond Sediments as Tracer of Past and Present Atmospheric Lead Pollution in Belgium, W85-03596	1807 5B	<b>LANDINE, R. C.</b> Anaerobic Pretreatment Facility also Provides Sludge Disposal Capability and Source of Renewable Energy for Food Processor, W85-05566	1810 5D	Temperature and Evapotranspiration Gradients of the White Mountains, New Hampshire, U.S.A., W85-00111	1801 2D
<b>LAMBING, J. H.</b> Statistical Analysis and Evaluation of Water-Quality Data for Selected Streams in the Coal Area of East-Central Montana, W85-01770	1804 5B	<b>LANDOLT, M. L.</b> Histologic and Skeletal Abnormalities in Benzo(a)pyrene-Treated Rainbow Trout Alewives, W85-03223	1807 5C	<b>LANG, K. J.</b> Interrill Erosion as an Index of Mined Land Soil Erodibility, W85-03370	1807 2J
<b>LAMBOU, V. W.</b> Transport of Organic Carbon in the Atchafalaya Basin, Louisiana, W85-00396	1801 2H	<b>LANDRY, E. F.</b> Accumulation of Sediment-Associated Viruses in Shellfish, W85-00099	1801 5B	<b>LANG, M. E.</b> Treatment of Saline Wastewaters Using a Rotating Biological Contactor, W85-04289	1808 5D
<b>LAMMEL, K.</b> Effects of Wind on the Temperature Stratification in the Lake of Kochel - First Evaluation of Data and Results (Der geschichtete Kochelsee unter Windlast - Erste Datenauswertung und Ergebnisse), W85-00900	1802 2H	<b>LANDSBERG, J. J.</b> Water Use by Isolated Trees, W85-06677	1812 2E	<b>LANGDALE, G. W.</b> Conservation Practice Effects on Phosphorus Losses from Southern Piedmont Watersheds, W85-05969	1811 5B
<b>LAMMI, R.</b> Removal of Organic and Toxic Substances From Debarking and Kraft Pulp Bleaching Effluents by Activated Sludge Treatment, W85-05061	1810 5D	<b>LANDVIK, J. Y.</b> Glaciation Development and Interstadial Sea-Level on Central Spitsbergen, Svalbard, W85-06843	1812 2C	<b>LANGE, E. L.</b> Statistical Procedures for Applying Hilsenhoff's Biotic Index, W85-02245	1805 5A
<b>LAMOTHE, P.</b> Evaluation of Ecological Forecasting Previous to the Hydroelectric Development of a Natural Subarctic Reservoir (Evaluation et Prevision Ecologique Prealable a L'Amenagement Hydroelectrique D'Un Reservoir Naturel Hemiarctique), W85-04575	1809 6G	<b>LANDWEHR, J. M.</b> Note on the Applicability of the James-Stein Estimator in Regional Hydrologic Studies, W85-03562	1807 2A	<b>LANGELAND, W. E.</b> Simultaneous Denitrification with Nitrification in Single-Channel Oxidation Ditches, W85-07051	1812 5D
<b>LAMPARSKI, L. I.</b> Determination of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin in Treated Wastewater, W85-01729	1804 5A	<b>LANE, J. A. K.</b> Aquatic Macrophyte Flora of Saline Wetlands in Western Australia in Relation to Salinity and Permanence, W85-05752	1810 2L	<b>LANGFORD, D. J.</b> Long-Distance, High-Pressure Water Supply System for Bonanza Power Plant, W85-05328	1810 8C
<b>LAMPARTER, R. A.</b> Wet Oxidation for Industrial Waste Treatment, W85-05772	1810 5D	<b>LANE, J. L.</b> Size-Fractionation of Natural Phytoplankton Communities in Nutrient Bioassay Studies, W85-03697	1807 2H	<b>LANGHAM, L. R.</b> Electrochemical Approach to the Prevention of Biofouling Phenomena, W85-00863	1802 3A
<b>LAMPINEN, J.</b> Application of Landsat Satellite Data for Mapping Aquatic Areas in North-Eastern Finland, W85-06805	1812 7B	<b>LANE, L. J.</b> Fate and Effectiveness of Tebuthiuron Applied to a Rangeland Watershed, W85-01285	1803 5B	<b>LANGLAIS, B.</b> Destruction by Ozone of Amoeba Cysts in Recycled Swimming Pool Water, W85-02725	1806 5D
<b>LANCELOT, C.</b> Changes in the Quality of River Oise Water During Retention in the Storage Basin at Mery		<b>LANE, P. A.</b> Comparison of Plankton-Water Chemistry Relationships in Three Acid Stressed Lakes in Nova Scotia, Canada, W85-04911	1809 2H	Use of Ozonation in Treatment of Sewage, W85-06213	1812 5D
				<b>LANGSTON, W. J.</b> Availability of Arsenic to Estuarine and Marine Organisms: A Field and Laboratory Evaluation, W85-01368	1803 5B
				Statistical Analysis of Estuarine Profiles: II Application to Arsenic in the Tamar Estuary (S.W. England), W85-01914	1804 5B

## AUTHOR INDEX

**LANNOYE, R.**

**LANNOYE, R.**  
Chlorophyll Fluorescence Induction: A Sensitive Indicator of Water Stress in Maize Plants, W85-05931 1811 2I

**LANSFORD, R. R.**  
Irrigated Agricultural Decision Strategies for Variable Weather Conditions, W85-06340 1812 6A

Practically Irrigable Acreage and Economic Feasibility: The Role of Time, Ethics, and Discounting, W85-01251 1803 6E

**LANTZ, R. B.**  
Numerical Simulation of Thermal Energy Storage Experiment Conducted by Auburn University, W85-00335 1801 4B

**LANZANTE, J. R.**  
Specification of United States Seasonal Precipitation, W85-07141 1812 2B

**LAPHAM, W. W.**  
Ground-Water Resources of the White River Basin, Randolph County, Indiana, W85-03902 1808 2F

**LAPINA, N. M.**  
Production-Destruction Processes in the Budak Liman, W85-04125 1808 2L

**LAPLANCHE, A.**  
Ozonation Schemes of Organo Phosphorus Pesticides Application in Drinking Water Treatment, W85-06214 1812 5F

Use of Ozonation in Treatment of Sewage, W85-06213 1812 5D

**LAPOINT, T. W.**  
Relationships Among Observed Metal Concentrations, Criteria, and Benthic Community Structural Responses in 15 Streams, W85-02584 1805 5A

**LAPPALAINEN, K. M.**  
Lake Management and Restoration, W85-02387 1805 5G

**LAPPING, M. B.**  
Water for Energy in the Northeastern Region of the United States: Legal Issues and Concerns, W85-00939 1802 6E

**LAQUIDARA, M. J.**  
Treatment of Apple Processing Wastewater by the Anaerobic Filter Process, W85-05562 1810 5D

**LARA, J. M.**  
Angostura Reservoir, 1979 Sedimentation Survey, W85-05130 1810 2J

Caballo Reservoir, 1981 Sedimentation Survey, W85-05134 1810 2J

Computing Degradation and Local Scour, W85-04934 1809 2J

**LARA, O. G.**  
Effects of Visitation Frequency and Instrument Reliability on the Accuracy of Estimation of River Discharges, W85-02825 1806 2E

Evaluation of the Efficiency of Streamflow Data Collection Strategies for Alluvial Rivers, W85-01170 1803 2E

**LARA, R. J.**  
Tidal Variations of Some Physico-Chemical Parameters in Blanca Bay, Argentina, W85-03498 1807 2L

**LARBAIGT, G.**

Comparison of the Microtox and Daphnia Test for the Evaluation of Industrial Effluents (Comparaison des Tests Microtox et Daphnie pour l'Evaluation de la Toxicite Aigue d'Effluents Industriels), W85-00907 1802 5A

**LARGEN, J. B.**  
Drainage Basins in Duval County, Florida, W85-02046 1804 7C

**LARKIN, P. A.**  
Commentary on Environmental Impact Assessment for Large Projects Affecting Lakes and Streams, W85-01920 1804 6G

**LAROCK, B. E.**  
Three-Dimensional Model of a Skimming Well, W85-02446 1805 2F

**LARPENT, J. P.**  
Water Pollution by Uranium Ore Treatment Works, W85-00793 1802 5C

**LARSEN, I. L.**  
Inventories and Sorption-Desorption Trends of Radiocesium and Radiocobalt in James River Estuary Sediments, W85-04601 1809 5B

**LARSEN, P. F.**  
Appearance of PCBs in the Surficial Sediments of Casco Bay, Maine, W85-04382 1808 5B

**LARSEN, V. F.**  
Anaerobic Fluidized Bed Whey Treatment, W85-05254 1810 5D

**LARSON, C. L.**  
Controlling Erosion and Sedimentation in the Panama Canal Watershed, W85-04442 1809 4D

Predicting Direct Recharge of Surficial Aquifers, W85-06080 1811 2F

Tilled Soil Subsidence During Repeated Wetting, W85-03377 1807 2G

**LARSON, D. T.**  
Satisfying Instream Flow Needs Under Western Water Rights, W85-06030 1811 6E

**LARSON, D. W.**  
Crater Lake Study: Detection of Possible Optical Deterioration of a Rare, Unusually Deep Caldera Lake in Oregon, U.S.A., W85-02644 1805 2H

**LARSON, G. E.**  
Possible Relationships Between Surface Water Chemistry and Aquatic Plants in the Northern Great Plains, W85-04697 1809 2H

**LARSON, G. J.**  
Computerized Ground-Water Resources Information System, W85-05845 1810 2F

**LARSON, S. P.**  
Representation of Multiaquifer Well Effects in Three-Dimensional Ground-Water Flow Simulation, W85-00316 1801 4B

**LARSON, T. H.**  
Water Reuse Through Groundwater Recharge in Northeastern Illinois, W85-06941 1812 5D

**LARSSON, A.**  
Biochemical and Hematological Studies on Perch, *Perca fluviatilis*, from the Cadmium-Contaminated River Eman, W85-00272 1801 5C

Long-Term Sublethal Physiological Effects on Rainbow Trout, *Salmo gairdneri*, during Exposure to Cadmium and after Subsequent Recovery, W85-00881 1802 5C

Physiological Disturbances in Rainbow Trout, *Salmo gairdneri* (R.) Exposed at Two Temperatures of Effluents from a Titanium Dioxide Industry, W85-00883 1802 5C

**LARSSON, P.**  
Change in PCB (Clophen A 50) Composition when Transported from Sediment to Air in Aquatic Model Systems, W85-05974 1811 5B

Sedimentation of Polychlorinated Biphenyls (PCBs) in Limnic and Marine Environments, W85-02911 1806 5B

Transport of PCBs from Aquatic to Terrestrial Environments by Emerging Chironomids, W85-00910 1802 5B

**LARSSON, U.**  
Eutrophication and the Baltic Sea: Causes and Consequences, W85-05464 1810 5C

**LASAGA, A. C.**  
Chemical Kinetics of Water-Rock Interactions, W85-00722 1802 2K

**LASCANO, R. J.**  
Test and Analysis of a Model of Water Use by Soghum, W85-01278 1803 2I

**LASCHCHENOV, S. YA.**  
Prospects of Using Automated Management Systems in Earth-Dam Construction, W85-05022 1810 8A

**LASENBY, D. C.**  
Comparison of Lead and Zinc Sediment Profiles from Cores Taken by Diver and a Gravity Corer, W85-01011 1802 5A

**LASETER, J. L.**  
Volatile Organic Pollutants in Biota and Sediments of Lake Pontchartrain, W85-04476 1809 5A

**LASKOWSKI-HOKE, R. A.**  
Multivariate Statistical Analyses of 96-Hour Sediment Bioassay and Chemistry Data, W85-02777 1806 5A

**LASSOIE, J. R.**  
Effects of Long-Term Artificial Flooding on a Northern Bottomland Hardwood Forest Community, W85-00291 1801 6G

**LAST, W. M.**  
Sedimentology and Geochemistry of Saline Lakes of the Great Plains, W85-05760 1810 2H

Sedimentology of Playa Lakes of the Northern Great Plains, W85-00957 1802 2J

**LAST, Y.**  
Design Discharges Estimation for Various Desert Sites near the Dead Sea (Israel), W85-05539 1810 2A

**LASTEIN, E.**  
Automatic System for Measurements in Shallow Lakes, W85-00874 1802 2H

Decomposition and Sedimentation Processes in Oligotrophic, Subarctic Lake Thingvalla, Iceland, W85-01453 1803 2H

## AUTHOR INDEX

<b>LATIMER, G. J.</b>			<b>LAWRENCE, P. R.</b>
Optical Characterisation of Natural Waters by PAR Measurement Under Changeable Light Conditions, W85-06797	1812	2H	
<b>LATIMER, J. S.</b>			
Urban Runoff as a Source of Polycyclic Aromatic Hydrocarbons to Coastal Waters, W85-02108	1804	5B	
<b>LATINOPOULOS, P.</b>			
Periodic Recharge to Finite Aquifers from Rectangular Areas, W85-04174	1808	2F	
<b>LATOILA, P. K.</b>			
Treatment of Different Wastewaters from Pulp and Paper Industry in Methane Reactors, W85-07015	1812	5D	
<b>LATTERMANN, E.</b>			
Lowering of the Water Level at Watertight Reinforcements (Wasserspiegelsenkung bei dichten Deckwerken), W85-03521	1807	8A	
Rational Slope Stabilization by Means of a New Type of Concrete Plate (Rationelle Boschungs-befestigungen Durch Neuartige Betonplatten), W85-03453	1807	8F	
<b>LAU, K.-C.</b>			
Coupled Heat and Moisture Flow Through Soils, W85-03814	1808	2G	
Horizontal Drains to Stabilize Clay Slopes, W85-00143	1801	8D	
Temporal Changes of Groundwater Pressure in a Natural Slope of Nonfissured Clay, W85-03420	1807	2G	
<b>LAU, P.-Y.</b>			
Incidence and Levels of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Lake Ontario Commercial Fish, W85-02349	1805	5B	
<b>LAU, Y. L.</b>			
River Mixing - A State-of-the-Art Report, W85-04050	1808	5B	
<b>LAUCH, E. T.</b>			
Acid Rain: The Data and Monitoring Needs, W85-00508	1802	7A	
<b>LAUDON, K. J.</b>			
Seismic and Resistivity Investigations Near Norway, Michigan, W85-03179	1806	2F	
<b>LAUDON, T. S.</b>			
Seismic and Resistivity Investigations Near Norway, Michigan, W85-03179	1806	2F	
<b>LAUER, H.</b>			
Treatment of Sludge from a Plant for Joint Treatment of Industrial Wastewater and Communal Sewage, W85-04007	1808	5E	
<b>LAUER, J.</b>			
Coprecipitation of Microalgal Biomass with Calcium and Phosphate Ions, W85-04498	1809	5F	
<b>LAUER, T. E.</b>			
Twenty-Five Years of Phytoplankton on the West Fork and Main Stem of the White River: 1958-1982, W85-06849	1812	2H	
<b>LAUMER, J.</b>			
Marsh and Wetland Study, (Fox River Valley, Wisc.), W85-00831	1802	2H	
<b>LAUMER, J. C.</b>			
Groundwater: A Survey of Contamination Potential in the Fox Valley Region, W85-00830	1802	5B	
<b>LAUNIUS, K. W.</b>			
Runoff Water Quality from Fresh Mine Spoil, W85-02744	1806	5B	
<b>LAURA, R. A.</b>			
Two-Dimensional Flood Routing on Steep Slopes, W85-02267	1805	6F	
<b>LAUREN, D. R.</b>			
Anomalies in the High-Performance Liquid Chromatographic Determination of Diquat in Water Samples, W85-03405	1807	5A	
<b>LAURENCEAU, J. M.</b>			
Evolution of Algal and Detrital Components in the Particulate Organic Carbon of Three Rivers from the Bassin Parisien (Evolution du Carbone Organique Particulaire 'algal' et 'detritique' dans trois rivieres du Bassin Parisien), W85-00630	1802	2H	
<b>LAURENSEN, E. M.</b>			
Model of Flood Wave Speed-Discharge Characteristics of Rivers, W85-03994	1808	2E	
<b>LAURENT, J.</b>			
Hydrological Measurement Using a Public Telephone System (Telemesure Hydrologique par Reseau Telephonique Commune), W85-00389	1801	7B	
<b>LAURITSEN, D. D.</b>			
Distribution of Oligochaetes in Lake Michigan and Comments on Their Use as Indices of Pollution, W85-06866	1812	5A	
<b>LAURSEN, E. M.</b>			
Assessing Vulnerability of Bridges to Floods, W85-06116	1811	8A	
<b>LAUWEN, J. P. M.</b>			
Carbon Flow Across the Sediment-Water Interface in Lake Vechten, The Netherlands, W85-02066	1804	2H	
<b>LAVABRE, J.</b>			
Methodology for Producing an Inventory of Sites for Small Hydroelectric Schemes Haute-Savoie, a Case Study (Methodologie d'un Inventaire de Sites de Microcentrales Cas de la Haute-Savoie), W85-03587	1807	6A	
<b>LAVAUX, G.</b>			
Variation of Organic Matter Extracted from Particles along the Gironde Estuary (France), W85-04372	1808	2L	
<b>LAVELLE, J. W.</b>			
New Method of Wet Density and Settling Velocity Determination for Wastewater Effluent, W85-03666	1807	5A	
<b>LAVERTY, P. E.</b>			
Cation Exchange Pretreatment Studies for High Recovery - Yuma Desalting Plant, W85-04223	1808	3A	
<b>LAVOLETTE, S.</b>			
Use of the Double Alkali Flue Gas Desulfurization Process to Treat Electric Utility Metal Cleaning Wastes, W85-05438	1810	5D	
<b>LAVOIE, M. C.</b>			
Detection of False-Positives Among Total and Fecal Coliform Counts by Factorial Analysis of Correspondence, W85-04265	1808	5A	
<b>LAVROVA, L. D.</b>			
Experience in Studying Technogenic Unloading in Construction Pits, W85-06592	1812	8E	
<b>LAVY, T. L.</b>			
Mobility and Persistence of Hexazinone in a Forest Watershed, W85-06720	1812	5B	
<b>LAW, D. V.</b>			
Waste Water Treating Process, W85-02863	1806	5D	
<b>LAW, L. M.</b>			
Hydrogeochemistry of Big Soda Lake, Nevada: An Alkaline Meromictic Desert Lake, W85-00297	1801	2H	
<b>LAWACZ, W.</b>			
Biotic Structure and Processes in the Lake System of R. Jorka Watershed (Masurian Lakeland, Poland), I. Land Impact, Loading and Dynamics of Nutrients, W85-00902	1802	2H	
Biotic Structure and Processes in the Lake System of R. Jorka Watershed (Masurian Lakeland, Poland), II. Physical and Chemical Properties of Water and Sediments, W85-00903	1802	2H	
External and Internal Loading and Retention of Phosphorus in the R. Jorka Lakes (Masurian Lakeland, Poland) vs Their Trophic Status, W85-04556	1809	2H	
<b>LAWERENZ, A.</b>			
Occurrence and Assessment of Polycyclic Aromatic Hydrocarbons in a River Loaded with Municipal and Industrial Wastewater (Vorkommen und Bewertung polzyklischer aromatischer Kohlenwasserstoffe in einem mit kommunalen und industriellen Abwassern belasteten Fließgewässer), W85-06258	1812	5B	
Problems in Water Contamination and its Analytical Understanding (Probleme der Wasserkontamination und ihrer analytischen Erfassung), W85-06267	1812	5A	
<b>LAWLER, D. F.</b>			
Biological Treatability of Underground Coal Gasification Wastewater, W85-05436	1810	5D	
Equalization/Neutralization Modeling An Application to Fluoride Removal, W85-02914	1806	5D	
Flocculation Model Testing: Particle Sizes in a Softening Plant, W85-01908	1804	5F	
<b>LAWLER, G. C.</b>			
Volatile Organic Pollutants in Biota and Sediments of Lake Pontchartrain, W85-04476	1809	5A	
<b>LAWRENCE, C. L.</b>			
Public-Supply Pumpage in Wisconsin, by Aquifer, W85-00618	1802	4B	
<b>LAWRENCE, F. W.</b>			
Identification of Recharge Areas Using Geochemical Factor Analysis, W85-00345	1801	2F	
<b>LAWRENCE, J. R.</b>			
D/H Ratios of Sap in Trees: Implications for Water Sources and Tree Ring D/H Ratios, W85-04758	1809	2I	
<b>LAWRENCE, P. R.</b>			
Oily Wastewater Treatment and the Impact of High Water Content Synthetic Fluids at Ford Motor Company, W85-05398	1810	5D	

**AUTHOR INDEX**

**LAWRENZ, A.**

LAWRENZ, A.  
Method of Analysis by Thin-Layer Chromatography for Active Components of Triazine Herbicides in Water (Dünnschichtchromatographische Analysemethode für herbizide Triazin-Wirkstoffe im Wasser),  
W85-06265 1812 5A

LAWSON, E. R.  
Mobility and Persistence of Hexazinone in a Forest Watershed,  
W85-06720 1812 5B

LAWSON, P. S.  
Adsorption and Complexation Mechanisms of Heavy Metal Uptake in Activated Sludge,  
W85-04411 1809 5D

Factors Affecting the Removal of Metals During Activated Sludge Wastewater Treatment; I. The Role of Soluble Ligands,  
W85-02209 1805 5D

Factors Affecting the Removal of Metals During Activated Sludge Wastewater Treatment; II. The Role of Mixed Liquor Biomass,  
W85-02210 1805 5D

LAXEN, D. P. H.  
Cadmium in Freshwaters: Concentrations and Chemistry,  
W85-03684 1807 2K

Manganese Chemistry in Rivers and Streams,  
W85-03213 1806 2K

LAY, J. P.  
Effects of Dichlobenil and Atrazine to the Population Density of Zooplankton in an Aquatic Outdoor System (Wirkung von Dichlobenil und Atrazin auf die Populationsdichte von Zooplankton in einem aquatischen Freilandystem),  
W85-02739 1806 5C

Influence of Tetrachloroethylene on the Biota of Aquatic Systems: Toxicity to Phyto- and Zooplankton Species in Compartments of a Natural Pond,  
W85-02196 1805 5C

Long-term Effects of 1,2,4-Trichlorobenzene on Freshwater Plankton in an Outdoor-Model-Ecosystem,  
W85-07154 1812 5C

Longterm Effects of the Herbicides Atrazine and Dichlobenil upon the Phytoplankton Density and Physico-chemical Conditions in Compartments of a Freshwater Pond,  
W85-01967 1804 5C

LAYHER, W. G.  
Compatibility of Multiple Uses; Potable Water Supplies and Fisheries,  
W85-04391 1808 6D

LAYTON, M.  
Application of Resistivity Surveys to Regional Hydrogeologic Reconnaissance,  
W85-00357 1801 7B

LAZAROVA, Z.  
Removal of Phenol from Waste Water by Double Emulsion Membranes and Creeping Film Pertraction,  
W85-05036 1810 5D

LAZERTTE, B. D.  
Forms of Aqueous Aluminum in Acidified Catchments of Central Ontario: A Methodological Analysis,  
W85-00893 1802 5A

Relative Importance of Anthropogenic versus Natural Sources of Acidity in Lakes and Streams of Central Ontario,  
W85-03602 1807 5B

LAZIC, S.  
Some Characteristics of Chemical Crystallization in Water Purification Process,  
W85-04409 1809 5F

LE EBERHART, B. T.  
Exposure of Two Species of Deposit-Feeding Amphipods to Sediment-Associated (3H)-Benzo(a)pyrene: Uptake, Metabolism and Covalent Binding to Tissue Macromolecules,  
W85-06383 1812 5C

LE GRAND, L.  
Water Supply Methods for Navigable Waterways; Optimization of a Project with Locks; Pump Stations (Les methodes d'alimentation en eau des voies navigables; Optimisation d'un projet avec écluses; Les stations de pompage),  
W85-00369 1801 4A

LE PLOMB, C.  
Recovery of Hydraulic Energy: Small Installations Associated with Major Hydraulic Projects (Recuperation d'énergie Hydraulique: Petites Installations d'énergie Associees a de Grands Projets Hydrauliques),  
W85-00383 1801 8C

LEACH, B.  
Development of a Groundwater Recharge Model for Hong Kong,  
W85-00693 1802 2A

LEACH, F. R.  
Determination of Microbial Cell Numbers in Subsurface Samples,  
W85-04636 1809 5A

LEACH, S. D.  
Projected Public Supply and Rural (Self-Supplied) Water Use in Florida Through Year 2020,  
W85-02036 1804 7C

LEAN, D.  
Dissipation of Permethrin in Limnocorals,  
W85-04838 1809 5B

LEAN, D. R. S.  
Aeration of Anoxic Hypolimnetic Water: Effects on Nitrogen and Phosphorus Concentrations,  
W85-02626 1805 5G

Chemical and Radiotracer Measurements of Phosphorus Uptake by Lake Plankton,  
W85-00887 1802 2H

LEAP, D. I.  
Simple Pneumatic Device and Technique for Performing Rising Water Level Slug Tests,  
W85-03186 1806 7B

LEAR, D. W.  
Human Pathogenic Viruses at Sewage Sludge Disposal Sites in the Middle Atlantic Region,  
W85-02939 1806 5B

LEATHERLAND, J. F.  
Proximate Composition and Organochlorine and Heavy Metal Contamination of Eggs from Lake Ontario, Lake Erie and Lake Michigan Coho Salmon (*Oncorhynchus kisutch* Walbaum) in Relation to Egg Survival,  
W85-06436 1812 5C

LEATHERMAN, S. P.  
Historical and Projected Shoreline Changes, Ocean City and North Assateague Island, Maryland,  
W85-00074 1801 2J

Recent Vertical Accretion Rates at Blackwater Wildlife Refuge,  
W85-01809 1804 2L

LEAVITT, J. R. C.  
Leaching of Atrazine in the Root Zone of an Alluvial Soil in Nebraska,  
W85-03851 1808 5B

LEBEL, G. L.  
Problems in Collection of Representative Samples for Determination of Tributoxyethyl Phosphate in Potable Water,  
W85-00164 1801 5A

LEBLANC, J.  
Boron Content in the Sediments from the St. Lawrence Estuary off Rimouski, Quebec, Canada,  
W85-01094 1802 5B

LEBLANC, G. A.  
Antimony and Thallium Toxicity to Embryos and Larvae of Fathead Minnows (*Pimephales promelas*),  
W85-00134 1801 5C

Effects of Copper on the Competitive Interactions of Two Species of Cladocera,  
W85-05849 1811 5C

Influence of Mineral Salts on Fecundity of the Water Flea (*Daphnia Magna*) and the Implications on Toxicity Testing of Industrial Wastewater,  
W85-01005 1802 5C

LEBLITZ, L.  
Wet Deposition Monitoring - Effect of Sampling Period,  
W85-05773 1810 5A

LEBRECQUE, D. J.  
Spatial Mapping of Conductive Ground Water Contamination with Electromagnetic Induction,  
W85-03177 1806 5A

LECHEVALLIER, M. W.  
Aeromonas sobria in Chlorinated Drinking Water Supplies,  
W85-02187 1805 5F

Evaluation of m-TT Agar as a Fecal Coliform Medium,  
W85-02598 1805 5A

Evidence for the Role of Copper in the Injury Process of Coliform Bacteria in Drinking Water,  
W85-02594 1805 5F

Interactions between Heterotrophic Plate Count Bacteria and Coliform Organisms,  
W85-07133 1812 5A

New Medium for Improved Recovery of Coliform Bacteria from Drinking Water,  
W85-00103 1801 5A

Recent Advances in Coliform Methodology for Water Analysis,  
W85-02722 1806 5A

LECHLEITNER, R. A.  
Ionoregulatory and Toxicological Responses of Stonefly Nymphs (Plecoptera) to Acidic and Alkaline pH,  
W85-05108 1810 5C

Structural, Functional, and Recovery Responses of Stream Invertebrates to Fly Ash Effluent,  
W85-01491 1803 5C

LECHNER, J. F.  
Determination of Alkalinity and Acidity of Water by Conductometric Acid-Base Titration,  
W85-02734 1806 5A

LECOINTE, O.  
Geochemical Behavior of Inorganic Germanium in an Unperturbed Estuary,  
W85-04760 1809 2K

LEDNAROVA, V.  
Determination of Inorganic Anions in River Waters by Column-Coupling Capillary Isotachophoresis,  
W85-02304 1805 7B

LEDOUX, E.  
Suggestion for a Coupled Model of Surface and Groundwater Simulation on a Watershed (Proposition d'un modèle couple pour la simulation conjointe des écoulements de surface et des écoulements souterrains sur un bassin hydrologique),  
W85-02354 1805 2A

## AUTHOR INDEX

LEHMANN, H.

**LEDREW, E. F.**  
Small Format, Hand Held Helicopter Based Photography for Monitoring Industrial Water Effluent Plumes, W85-04586 1809 7B

**LEDUC, L. G.**  
Unreliability of the Kinetic Approach to Measuring Bacterial Mineralization Activities at Low in situ Temperatures in an Acidic Aquatic Environment, W85-02440 1805 5A

**LEDWELL, J. R.**  
Gas Exchange-Wind Speed Relation Measured with Sulfur Hexafluoride on a Lake, W85-05055 1810 2H

**LEE, C. D.**  
Strategy in Water Quality Management in the Republic of China, W85-01419 1803 5G

**LEE, C. R.**  
Evaluation of Techniques to Estimate Annual Water Quality Loadings to Reservoirs, W85-06908 1812 5B

Field Investigations of Overland Flow Treatment of Municipal Lagoon Effluent, W85-06926 1812 5D

Field Survey of Heavy Metal Uptake by Naturally Occurring Saltwater and Freshwater Marsh Plants, W85-06976 1812 5B

Influence of Disposal Environment on Availability and Plant Uptake of Heavy Metals in Dredged Material, W85-05601 1810 5B

**LEE, D. S.**  
Metal and Transuranic Records in Mussel Shells, Byssal Threads and Tissues, W85-00666 1802 5A

**LEE, E. T.-Y.**  
Treatment of Spent Detergent Solution Containing Monoethanolamine, W85-05296 1810 5D

**LEE, F. Y.**  
Elements Associated with the Cadmium Phase in a Harbor Sediment as Determined with the Electron Beam Microprobe, W85-01279 1803 5B

**LEE, G. F.**  
Fishable Waters Everywhere: An Appropriate Goal, W85-01850 1804 6B

Is Hazardous Waste Disposal in Clay Vaults Safe, W85-03617 1807 5G

Summary of US OECD Eutrophication Study. Results and Their Application to Water Quality Management, W85-02625 1805 5C

**LEE, G. S.**  
Removal of Heavy Metals from Wastewater by Application of Hot Iron Desulfurization Slag, W85-07108 1812 5D

**LEE, G. W. JR.**  
Surface and Borehole Geophysical Methods in Ground Water Investigations, W85-03189 1806 2F

**LEE, H.-B.**  
Chemical Derivatization Analysis of Pesticide Residues. IX. Analysis of Phenol and 21 Chlorinated Phenols in Natural Waters by Formation of Pentfluorobenzyl Ether Derivatives, W85-05471 1810 5A

Chemical Derivatization Analysis of Pesticide Residues. VIII. Analysis of 15 Chlorophenols in Natural Water by In Situ Acetylation, W85-02113 1804 5A

**LEE, H. H.**  
Differential Response of Marine Organisms to Certain Metal and Agrichemical Pollutants, W85-02783 1806 5A

**LEE, J.**  
Metal Accumulation by Bryophytes in Some Zinc-Rich Blanket Bogs, Selwyn Mountains, Yukon Territory, W85-00952 1802 2L

**LEE, J. G.**  
Soil Loss Reduction in Finley Creek, Indiana: An Economic Analysis of Alternative Policies, W85-05963 1811 5G

**LEE, J. H. W.**  
Boundary Effects on a Submerged Jet Group, W85-02952 1806 8B

Line Momentum Source in Shallow Inviscid Fluid, W85-03038 1806 8B

**LEE, J. J.**  
Use of Free-Living Nematodes as a Bioassay for Estuarine Sediments, W85-01354 1803 5A

**LEE, K. B.**  
Rational Method Revisited, W85-05460 1810 2E

**LEE, M. D.**  
Cost Estimating for Regional Water Supply Study, W85-06953 1812 6C

**LEE, M. I.**  
Toxicity, Accumulation, and Elimination of Polycyclic Aromatic Sulfur Heterocycles in *Daphnia magna*, W85-02195 1805 5C

**LEE, R. F.**  
Heavy Metals and Polycyclic Hydrocarbon Compounds in Benthic Organisms of the Upper Gulf of Thailand, W85-01484 1803 5B

Retrospective Assessment of a Potential Cadmium Hazard, W85-06448 1812 5C

**LEE, V. D.**  
Predicting Variability in a Lake Ontario Phosphorous Model, W85-01758 1804 2H

**LEENDERTSE, J. J.**  
Verification of a Model of the Eastern Scheldt, W85-05121 1810 2L

**LEENEN, J. D.**  
Wind Induced Diffusion in a Shallow Lake, A Case Study, W85-01763 1804 2H

**LEENTVAAR, P.**  
Alto Sina Hydroelectric Project in Colombia: Possible Consequences for the Environment, W85-05718 1810 2H

Loosdrecht Lakes Restoration Project, an Introduction, W85-04544 1809 2H

**LEEUWANGH, P.**  
Quantitative Structure-Activity Relationships and Mixture Toxicity of Organic Chemicals in *Photobacterium phosphoreum*: The Microtox Test, W85-05809 1810 5C

Quantitative Structure-Activity Relationships and Mixture Toxicity Studies of Chloro- and Alkylanilines at an Acute Lethal Toxicity Level to the Guppy (*Poecilia reticulata*), W85-02702 1806 5C

**LEEWIS, R. J.**  
Shore Protection - A Tension Field Between Two Types of Conservation, W85-00562 1802 8A

**LEFEVRE, M. R.**  
Reducing Water Consumption in Cooling Towers, W85-01460 1803 3E

**LEFKOFF, L. J.**  
Attenuation of Stormwater Contaminants from Highway Runoff within Unsaturated Limestone, Dade County, Florida, W85-03944 1808 5B

**LEFKOFF, L. K.**  
Attenuation of Stormwater Contaminants from Highway Runoff within Unsaturated Limestone, Dade County, Florida, W85-03912 1808 5B

**LEFOR, M. W.**  
Annotated Bibliography of Remote Sensing for Highway Planning and Natural Resources, W85-00047 1801 10C

**LEFOULON, R.**  
Construction of a Gated Weir on a Waterway Carrying Heavy Traffic (Construction d'un barrage mobile sur une voie navigable à fort trafic), W85-00376 1801 8C

**LEGENDRE, P.**  
Dynamics of Pollution-Indicator and Heterotrophic Bacteria in Sewage Treatment Lagoons, W85-02935 1806 5D

**LEGGE, F.**  
Malawi - Driving a 9 m Diameter Power Conduit with Low Cover at Nkula Falls, W85-04819 1809 8A

**LEGGETT, J. E.**  
Effect of Moisture Stress on Seed Growth in Soybeans, W85-03356 1807 2I

**LEGOVIC, T.**  
Effects of Ecological Perturbations on Diatom Dynamics in the Model of Lake Jezero, W85-04901 1809 2H

Model of Diatom Dynamics in the Epilimnion of Lake Jezero on the Island of Krk, W85-04900 1809 2H

**LEHIGH, D. R.**  
Planning Water Supply Projects: The Systems Estimate, W85-06947 1812 6C

**LEHMAN, J. T.**  
Nitrogen Loading: Influence on Dissolved Inorganic Carbon in Natural Waters, W85-02623 1805 5C

**LEHMAN, O. R.**  
Interflow of Water and Tracer Chemical on Sloping Field Plots with Exposed Seepage Faces, W85-06050 1811 5B

**LEHMANN, D. L.**  
Sludge Application to Land Compared with a Pasture and a Hayfield: Reduction of Biological Health Hazard Over Time, W85-03863 1808 5E

**LEHMANN, H.**  
Water Resources Development and Management Plans; Part 6: Quality Simulation (Bewirtschaftungsplane; Teil VI: Gutesimulation), W85-00966 1802 5B

## AUTHOR INDEX

**LEHTINEN, K.-J.**

**LEHTINEN, K.-J.**  
Physiological Disturbances in Rainbow Trout, *Salmo gairdneri* (R.) Exposed at Two Temperatures of Effluents from a Titanium Dioxide Industry,  
W85-00883 1802 5C

Toxicity of Effluents from a TiO<sub>2</sub> Plant to the Harpacticoid Copepod *Nitocra spinipes* Boeck,  
W85-04866 1809 5C

**LEHTONEN, H.**  
Effects of Environmental Changes on the Fisheries and Fish Stocks in the Archipelago Sea and the Finnish Part of the Gulf of Bothnia,  
W85-02388 1805 5C

**LEIBER, E.**  
Factors of Simultaneous Consumption and Supply Patterns at Long Distance Drinking Water Supply Systems (Gleichzeitigkeitsfaktor und Abnahmeharakteristiken bei Fernwasserversorgungssystemen),  
W85-03248 1807 5F

**LEIBFRIED, R. T.**  
Causes of Acidification of Four Streams on Laurel Hill in Southwestern Pennsylvania,  
W85-03861 1808 5B

**LEIGHTON, J. P.**  
Integer Programming Analysis of the Regionalization of Large Wastewater Treatment and Collection Systems,  
W85-01340 1803 5F

**LEIN, G.**  
Pressure Surges in Watersystems of High Pressure Plants (Druckschwankungen im Wasserfuhruungsysten von Hochdruckanlagen),  
W85-03266 1807 8C

**LEIST, D. W.**  
Water Resources Data, Kentucky, Water Year 1982,  
W85-01923 1804 2E

**LEISTRA, M.**  
Computed and Measured Leaching of the Insecticide Methomyl from Greenhouse Soils into Water Courses,  
W85-02924 1806 5B

Contribution of Leaching of Diazinon, Parathion, Tetrachlorvinphos and Triazophos from Glasshouse Soils to Their Concentrations in Water Courses,  
W85-01961 1804 5B

Leaching of Oxidation Products of Aldicarb from Greenhouse Soils to Water Courses,  
W85-02208 1805 5B

**LEITCH, J. A.**  
Improving Wetland Policy Through Amelioration of Adverse Effects on Local Economies,  
W85-03134 1806 6B

Proposed Framework for Developing a Multidisciplinary Wetlands Valuation Model,  
W85-04684 1809 2L

**LEITCH, W. G.**  
Long-Term Wetland-Waterfowl Trends in Saskatchewan Grassland,  
W85-05734 1810 2H

**LEITH, I. D.**  
Chemical Composition of Rainfall and Wet Deposition over Northern Britain,  
W85-03295 1807 5B

**LEITZELL, C. R.**  
Red Hill Disposal Site: A Case Study,  
W85-05368 1810 5E

**LELAND, H. V.**  
Copper Transport along a Sierra Nevada Stream,  
W85-00719 1802 5B

Effects of Copper on Production of Periphyton, Nitrogen Fixation and Processing of Leaf Litter in a Sierra Nevada, California, Stream,  
W85-06414 1812 5C

Effects of Copper on Species Composition of Periphyton in a Sierra Nevada, California, Stream,  
W85-00294 1801 5C

**LEMEE, G.**  
Concept of Drought Adaptation (La Notation d'Adaptation à la Sécheresse),  
W85-02331 1805 2I

**LEMEUR, R.**  
Water Stress Induction Using Polyethylene Glycol in Nutrient Film Technique. Effects of the Photosynthetic Parameters of three Tomato Species and one Hybrid,  
W85-03838 1808 2I

**LEMLEY, A. T.**  
Hydrolysis of Aldicarb, Aldicarb Sulfoxide, and Aldicarb Sulfone at Parts per Billion Levels in Aqueous Mediums,  
W85-02720 1806 5B

Nitrate Contamination: Public Awareness,  
W85-04828 1809 5F

Quantitative Determination of ppb Levels of Carbamate Pesticide in Water by Capillary Gas Chromatography,  
W85-01747 1804 5A

**LEMlich, S. K.**  
Effects of Wastewater Disposal on Growth Rates of Cypress Trees,  
W85-03859 1808 5B

**LEMLY, A. D.**  
Effects of Acute Exposure to Acidified Water on the Behavioral Response of Fathead Minnows, *Pimephales promelas*, to Chemical Feeding Stimuli,  
W85-06382 1812 5C

**LENONI, D. R.**  
Agriculture and Stream Water Quality: A Biological Evaluation of Erosion Control Practices,  
W85-02296 1805 5C

Benthic Macroinvertebrates of Cane Creek, North Carolina, and Comparisons with Other Southeastern Streams,  
W85-06799 1812 2H

**LENKEVICH, M. J.**  
Comparison of Avoidance Responses of an Estuarine Fish, *Fundulus heteroclitus*, and Crustacean, *Palamonetes pugio*, to Bis(Tri-N-Butyltin)Oxide,  
W85-06887 1812 5C

**LENNOX, L. J.**  
Sediment-Water Exchange in Lough Ennell with Particular Reference to Phosphorus,  
W85-04294 1808 2H

**LENTH, A. L.**  
Treatment System for Control of Radioactive Wastewater Generated During Cleanup of the Canonsburg, Pennsylvania, Site of the Uranium Mill Tailings Remedial Action Program,  
W85-05262 1810 5D

**LENTH, J. J.**  
Runoff from Utility Waste Landfill to be Recycled from Detention Basin to Scrubber Make-Up,  
W85-01849 1804 5D

**LEONARD, J. P.**  
Waste Water Treating Process,  
W85-02863 1806 5D

**LEONARD, R.**  
Managing Riparian Ecosystems to Control Non-point Pollution,  
W85-05956 1811 5G

Riparian Forests as Nutrient Filters in Agricultural Watersheds,  
W85-00127 1801 2I

**LEONARD, R. A.**  
Conservation Practice Effects on Phosphorus Losses from Southern Piedmont Watersheds,  
W85-05969 1811 5B

Movement of Water in a Plinthic Paleudult Using a Bromide Tracer,  
W85-04957 1809 2G

Nutrient Budgets for Agricultural Watersheds in the Southeastern Coastal Plain,  
W85-04826 1809 6G

Pesticide Pollution Probabilities,  
W85-06075 1811 5B

**LEONARD, R. B.**  
Regional Study of the Dakota Aquifer (Darton's Dakota Revisited),  
W85-00320 1801 2F

**LEONI, V.**  
Application of a Simplified Method for Recovery of *Yersinia enterocolitica* from Surface Waters,  
W85-07135 1812 5A

**LEONTEV, I. O.**  
Mass Transport in the Turbulent Bottom Layer of a Wave Flow over a Sloping Bottom,  
W85-05145 1810 2J

**LEONTE, E.**  
Methods for Evaluation Maximum Acceptable Toxicant Concentration of Some Pesticides Upon the Freshwater Fish. I. Evaluation MATC Values of Fungicide Thiram (Metodo de Determinare a Valorul Maxime Admisibil (MATC) in Apa unor Pesticide Asupra Unor Specii de Pest Dulcicoli. I. Determinarea Valorii MATC a Fungicidului Tiuram),  
W85-03531 1807 5C

**LEONTIADIS, J. L.**  
Isotope Hydrology Study of Molai Area in Laconia,  
W85-05595 1810 2F

**LEONZIO, C.**  
Trace-metals and Chlorinated Hydrocarbons in Birds' Eggs from the Delta of the Danube,  
W85-07146 1812 5B

**LEPPARD, G. G.**  
Effects of Low-pH Stress on the Morphology and Activity of Bacteria from Lakes Receiving Acid Precipitation,  
W85-02482 1805 5C

Ultrastructure of Lacustrine Sedimenting Materials in the Colloidal Size Range,  
W85-03232 1807 2J

**LES, A.**  
Toxicity and Binding of Copper, Zinc, and Cadmium by the Blue-Green Alga, *Chroococcus paris*,  
W85-02922 1806 5C

**LESACK, L. F. W.**  
Response of a Boreal Northern Pike (*Esox lucius*) Population to Lake Impoundment: Wupaw Bay, Southern Indian Lake, Manitoba,  
W85-00643 1802 6G

Transport of Carbon, Nitrogen, Phosphorus, and Major Solutes in the Gambia River, West Africa,  
W85-02220 1805 2H

**LESEMAN, W. G.**  
Land Treatment of Municipal Wastewater: Selected Examples in the United States,  
W85-05324 1810 5D

## AUTHOR INDEX

LEWIS, W. M.

**LESNIAK, T. C.**  
Hydrogeological Properties of the Zalas Porphyry Laccolith Near Krzeszowice (Własności Hydrogeologiczne Porfirów Lakkolitu Zalskiego Kolo Krzeszowic),  
W85-05858 1811 2F

**LESSER, F. H.**  
Avian Utilisation on Six Salt Marshes in New Jersey,  
W85-00120 1801 2L

**LESTER, J. N.**  
Adsorption and Complexation Mechanisms of Heavy Metal Uptake in Activated Sludge,  
W85-04411 1809 5D

Aspects of the Determination of Complexation Parameters for Metal-Particulate Complexes in Activated Sludge,  
W85-06223 1812 5D

Behaviour of Persistent Organochlorine Micro-pollutants During Primary Sedimentation of Waste Water,  
W85-03031 1806 5D

Comparison of Methods for the Determination of Conditional Stability Constants of Heavy Metal-Fulvic Acid Complexes,  
W85-02434 1805 5A

Complexation of Heavy Metals by Extracellular Polymers in the Activated Sludge Process,  
W85-04290 1808 5D

Determination of Chlorinated Phenols in Water, Wastewater, and Wastewater Sludge by Capillary GC/ECD,  
W85-02810 1806 5A

Evaluation of Single- and Separated-Phase Anaerobic Industrial Wastewater Treatment in Fluidized Bed Reactors,  
W85-02735 1806 5D

Factors Affecting the Removal of Metals During Activated Sludge Wastewater Treatment; I. The Role of Soluble Ligands,  
W85-02209 1805 5D

Factors Affecting the Removal of Metals During Activated Sludge Wastewater Treatment; II. The Role of Mixed Liquor Biomass,  
W85-02210 1805 5D

Occurrence and Distribution of Persistent Organochlorine Compounds in U.K. Sewage Sludges,  
W85-04012 1808 5D

Significance and Behaviour of Heavy Metals in Wastewater Treatment Processes IV. Water Quality Standards and Criteria,  
W85-04356 1808 5D

**LESTER, W. F.**  
River Outfalls, Estuaries and the Marine Environment,  
W85-01393 1803 5B

**LETEY, J.**  
Salinity and Uniformity of Water Infiltration as Factors in Yield and Economically Optimal Water Application,  
W85-00750 1802 3C

**LETENMAIER, D. P.**  
Consolidation of a Stream Quality Monitoring Network,  
W85-02973 1806 7A

Cyclic Storage: A Preliminary Assessment,  
W85-00311 1801 4B

Limitations on Seasonal Snowmelt Forecast Accuracy,  
W85-01563 1803 2C

Multisite ARMA (1,1) and Disaggregation Models for Annual Streamflow Generation,  
W85-06504 1812 2E

**LETTINGA, G.**  
Anaerobic Wastewater Treatment and its Potentials,  
W85-06812 1812 5D

**LETTY, D. F.**  
Water Resources Data, Massachusetts and Rhode Island, Water Year 1982,  
W85-01935 1804 2E

**LEUENBERGER, C.**  
Influence of pH and Ionic Strength on the Aqueous-Nonaqueous Distribution of Chlorinated Phenols,  
W85-04803 1809 5B

Sorption of Chlorinated Phenols by Natural Sediments and Aquifer Materials,  
W85-02344 1805 5B

**LEVE, G. W.**  
Relation of Concealed Faults to Water Quality and the Formation of Solution Features in the Floridian Aquifer, Northeastern Florida, U.S.A.,  
W85-00021 1801 2F

**LEVEAU, M.**  
Effects of Petroleum Hydrocarbons on the Cytochrome P450 Content of the Mollusc Bivalve *Mytilus galloprovincialis*,  
W85-01367 1803 5C

**LEVI, E.**  
Fluidic Vortex Device for Water Treatment Processes,  
W85-01228 1803 5D

**LEVIN, B. M.**  
Determination of the Flow Rate in a Pressure Pipe by Measuring the Velocity at one Point of a Convergent Nozzle Exit Section,  
W85-06709 1812 8B

Measurement of Discharge in Pressure Conduits by Means of Segmented Constrictors,  
W85-00469 1801 8B

On-Site Tests of a Segmental Constriction as a Flowmeter in Large Diameter Pipes,  
W85-05985 1811 8A

**LEVINA, S. I.**  
Discontinuous Wave on Stretches of an Abrupt Expansion of a Canal,  
W85-04424 1809 8B

**LEVINE, P. E.**  
Demonstration of Rapid Infiltration Technology, Ismailia, Egypt,  
W85-03333 1807 5D

**LEVINE, S. N.**  
Diel Variation of Nitrogen Fixation in Lake Valencia, Venezuela,  
W85-02224 1805 2H

**LEVINGS, C. D.**  
Microbial Contribution to the Mesotrophic Ecosystem of the Campbell River Estuary During Summer,  
W85-04673 1809 2L

**LEVITSKII, L. L.**  
Multipurpose Use and Protection of Water Resources in Power Complexes Including Nuclear Power Stations,  
W85-04090 1808 6G

**LEVSHAKOVA, V. D.**  
Effect of Runoff Distribution on Spring Phytoplankton of the North Caspian,  
W85-04126 1808 2L

**LEVY, B. S.**  
Surface and Borehole Geophysical Methods in Ground Water Investigations,  
W85-03189 1806 2F

**LEVY, D.**  
Responses of Lake Waters to Organic Matter Additions,  
W85-00998 1802 2H

**LEVY, J. A.**  
Energy Requirements for Air Stripping Trihalomethanes,  
W85-06493 1812 5F

**LEVY, J. Q.**  
Investigation into the Hydraulic Resources of a Lagoon in Portugal,  
W85-04461 1809 5G

**LEVY, S. M.**  
Fluoride Analyses of Patient Water Supplies Requested by North Carolina Health Professionals,  
W85-03748 1807 5F

**LEVY, Y.**  
Effect of High Sodium Irrigation Water on Soil Salinity and Yield of Mature Grapefruit Orchard,  
W85-05935 1811 3C

**LEWANDOWSKI, Z.**  
Denitrification by Packed Bed Reactors in the Presence of Chromium(VI); Resistance to Inhibition,  
W85-07118 1812 5D

Inhibition Coefficient (Ki) Determination in Activated Sludge,  
W85-07125 1812 5D

**LEWG, U. T.**  
Contribution of Ciliated Protozoa to the Planktonic Biomass in a Series of Ontario Lakes: Quantitative Estimates and Dynamical Relationships,  
W85-01045 1802 2H

**LEWIN, J.**  
Persistent Blooms of Surf Diatoms (Bacillariophyceae) along the Pacific Coast, USA. III. Relationships Between Diatom Populations and Environmental Variables along Oregon and Washington Beaches (1977 and 1978),  
W85-03839 1808 2L

**LEWIS, D.**  
Incidence and Levels of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Lake Ontario Commercial Fish,  
W85-02349 1805 5B

**LEWIS, E. J.**  
Gill Fouling and Parasitism in the Rock Crab, *Cancer irroratus* Say,  
W85-05893 1811 5C

**LEWIS, G. C.**  
Fluorite Precipitation in a Calcareous Soil Irrigated with High Fluoride Water,  
W85-02873 1806 2G

**LEWIS, M. A.**  
Summer Plankton Dynamics in Acton Lake, Ohio,  
W85-00811 1802 2H

**LEWIS, M. R.**  
Temporal Responses of the Macrophyte, *Potamogeton perfoliatus* L., and Its Associated Auto-trophic Community to Atrazine Exposure in Estuarine Microcosms,  
W85-05708 1810 5C

**LEWIS, T.**  
Accumulation of the Trace Elements Lead and Zinc by *Asellus communis* at Three Different pH Levels,  
W85-01795 1804 5B

**LEWIS, W. M.**  
Chemical Patterns of Bulk Atmospheric Deposition in the State of Colorado,  
W85-03570 1807 5B

## AUTHOR INDEX

**LEWIS, W. M.**

Relative Effects of Chlorine and Ammonia from Wastewater Treatment Facilities on Stream Biota, W85-06342 1812 5C

**LEWIS, W. M. JR.**  
Diel Variation of Nitrogen Fixation in Lake Valencia, Venezuela, W85-02224 1805 2H

**LEYLAND, B. W.**  
Designing Gates for Small Hydro Schemes, W85-06130 1811 8C

**LEYTHAM, K. M.**  
Maximum Likelihood Estimates for the Parameters of Mixture Distributions, W85-02156 1804 2E

**LI, A.**  
Determination of Alkalinity Requirements for the Anaerobic Treatment Process, W85-05548 1810 5D

Dorr-Oliver's Fixed-Film, Suspended-Growth Anaerobic Systems for Industrial Wastewater Treatment and Energy Recovery, W85-05283 1810 5D

**LI, C. Y.**  
Sand Dam, W85-00157 1801 8A

**LI, H. W.**  
Impact of Small-Scale Dams on Fishes of the Willamette River, Oregon and an Evaluation of Fish Habitat Models, W85-06321 1812 6G

**LI, M.**  
Measurement of Tritium in Natural Water, W85-01050 1802 5A

**LI, P.**  
Study of Strontium-90 in Sediment of the Bohai Bay, W85-01049 1802 5B

**LI, Q.**  
Relationships Between Arsenic and Other Elements (Iron, Aluminum, Manganese etc) in Surface Sediments of Bohai Bay (in Chinese), W85-04835 1809 2K

**LI, R.-M.**  
Mathematical Model for Estimating Scour Through Bridge Crossings, W85-06119 1811 2J

Modeling Physics and Chemistry of Contaminant Transport in Three-Dimensional Unsaturated Groundwater Flow, W85-06301 1812 2F

**LI, S. W.**  
Microbial Transformation of Alkylpyridines in Groundwater, W85-06374 1812 5C

**LI, W. K. W.**  
Modified Logistic Growth Equation: Effects of Cadmium Chloride on the Diatom, *Thalassiosira weissflogii* and the Dinoflagellate, *Amphidinium carteri* in Unialgal and Bialgal Batch Cultures, W85-03687 1807 5C

**LI, Y.**  
Exploiting Seasonal Energy from Small Hydro-power Stations, W85-04948 1809 6B

Geochemistry of the Sediment Interstitial Water in the Adjacent Sea Area to the Changjiang River Estuary, W85-01048 1802 2L

**LI, Y.-H.**  
Desorption and Coagulation of Trace Elements During Estuarine Mixing, W85-03208 1806 2K

Elemental Composition of Suspended Particles From the Yellow and Yangtze Rivers, W85-01703 1804 2J

**LIAW, C. C.**  
Effect of Salinity on Reaeration Coefficient of Receiving Waters, W85-01398 1803 2L

**LIAW, W. K.**  
Dynamics and Mechanisms of Arsenite Oxidation by Freshwater Lake Sediments, W85-02080 1804 5B

Dynamics of Desorption of Mercury Absorbed on Poorly Crystalline Oxides of Manganese, Iron, Aluminum, and Silicon, W85-02627 1805 5B

**LIBBIN, J. A.**  
Irrigated Agricultural Decision Strategies for Variable Weather Conditions, W85-06340 1812 6A

**LIBBY, L. W.**  
Paying the Nonpoint Pollution Control Bill, W85-05944 1811 5G

**LIBERICK, W. W.**  
Oil Shale - Potential Environmental Impacts and Control Technologies, W85-00285 1801 5C

**LIBERTI, A.**  
Ion Selective Electrodes for Measurements in Fresh Waters, W85-02316 1805 7B

**LIBICKI, C. M.**  
Computer Animation of Storm Surge Predictions, W85-05784 1810 2E

**LIBRA, R. D.**  
Sulfur Isotopes and Hydrochemical Variations in Spring Waters of Southern Indiana, U.S.A., W85-00022 1801 2F

**LICHTENBERG, J. J.**  
Determination of Halogenated Chemicals in Water by the Purge and Trap Method, Method 502.1, W85-06915 1812 5A

**LICHTNER, P. C.**  
Continuum Model for Simultaneous Chemical Reactions and Mass Transport in Hydrothermal Systems, W85-05762 1810 2F

**LICHTY, R. W.**  
Use of Rainfall-Simulator Data in Precipitation-Runoff Modeling Studies, W85-00837 1802 2A

**LICK, W.**  
Entrainment, Deposition, and Transport of Fine-Grained Sediments in Lakes, W85-02055 1804 2J

Turbidity in the Western Basin of Lake Erie, W85-00512 1802 5B

**LIDDCOAT, M. I.**  
Statistical Analysis of Estuarine Profiles: II Application to Arsenic in the Tamar Estuary (S.W. England), W85-01914 1804 5B

**LIDEN, J.**  
Equilibrium Approaches to Natural Water Systems - Part 4; Determination of Alkalinity of Organic Bases in an Anoxic Hypolimnetic Lake Water, W85-04074 1808 2K

**LIDSTROM, M. E.**  
Seasonal Study of Methane Oxidation in Lake Washington, W85-02134 1804 2H

**LIDZBA, B.**  
*XXVI CFMT - Exhibition of Scientific and Technical Achievement of Youth in the Water-management Industry,* W85-01875 1804 5G

**LIE, H.-J.**  
Variability of the Near-Surface Residual Current in the Lower St. Lawrence Estuary, W85-00516 1802 2L

**LIEBERMAN, D. M.**  
Plankton of Twin Lakes, Colorado, W85-05303 1810 2H

**LIEBERMANN, T. D.**  
Variation in pH During Summer Storms near the Continental Divide in Central Colorado, U.S.A., W85-05766 1810 2K

**LIEBERT, D. R.**  
Clean Water, Dirty Dams: Oxygen Depletion and the Clean Water Act, W85-04183 1808 6E

**LIEFFERS, V. J.**  
Emergent Plant Communities of Oxbow Lakes in Northeastern Alberta: Salinity, Water-Level Fluctuation, and Succession, W85-00951 1802 2H

Ephemeral Saline Lakes on the Canadian Prairies: Their Classification and Management for Emergent Macrophyte Growth, W85-05753 1810 2H

**LIEHR, J. G.**  
Characterization of Organic Compounds in Simulated Rainfall Runoffs from Model Coal Piles, W85-02200 1805 5B

**LIENIG, D.**  
Problems in Water Contamination and its Analytical Understanding (Probleme der Wasserkontamination und ihrer analytischen Erfassung), W85-06267 1812 5A

**LIEPA, R. A.**  
Typological Characteristics of Latvian Lakes for Infusoria Species Composition (Tipologicheskaya Kharakteristika Ozer Latvii po Vidovom Sostavu Infuzori), W85-06466 1812 2H

**LIEPAS, A. M.**  
Discrimination Against Interstate Commerce in Ground Water for Economic Reasons, W85-04179 1808 6E

**LIESER, K. H.**  
Determination of Trace Elements in River Water by Means of Voltammetry (Bestimmung von Spurenelementen in Flusswasser mit Hilfe der Voltammetrie), W85-06760 1812 5A

**LIETMAN, P. L.**  
Effects of Specific Land Uses on Nonpoint Sources of Suspended Sediment, Nutrients, and Herbicides - Pequea Creek Basin, Pennsylvania 1979-80, W85-00855 1802 5B

**LIETZOW, J. S.**  
Occurrence of the Asiatic Clam Corbicula fluviatilis in the Maumee River and Western Lake Erie, W85-01753 1804 5C

**LIGGETT, J. A.**  
Boundary Integral Solution to Seawater Intrusion Into Coastal Aquifers, W85-02371 1805 2F

**LIGHT, T. S.**  
Temperature Dependence and Measurement of Resistivity of Pure Water, W85-00945 1802 1A

## AUTHOR INDEX

**LIGHTFOOT, E. N.**  
Dispersion of Trace Solutes in Flowing Groundwater,  
W85-02667 1805 5B

**LIGOTINO, R. J.**  
Thermal Mortality Prediction Equations for Entraineable Striped Bass,  
W85-04682 1809 5C

**LIKLEMA, L.**  
Dynamic Phosphate Budget Model for a Eutrophic Lake,  
W85-02072 1804 2H

**LIKENS, G. E.**  
Acid Precipitation: Natural Versus Anthropogenic Components,  
W85-06060 1811 2K

Composition of Precipitation in Remote Areas of the World,  
W85-00514 1802 2K

Effect of Discharge Rate on Biotic and Abiotic Chemical Flux in an Acidified Stream,  
W85-02534 1805 5B

Long-Term Trends in Precipitation Chemistry at Hubbard Brook, New Hampshire,  
W85-04502 1809 5B

Physical, Chemical, and Biological Consequences of Episodic Aluminum Additions to a Stream,  
W85-05621 1810 5C

Red Herrings in Acid Rain Research,  
W85-00288 1801 5B

**LILLEHAMMER, A.**  
Ecology of the Suldalagen River in Western Norway before its Regulation,  
W85-06442 1812 2H

**LILLEY, R. J. JR.**  
Renovation of a Major Reservoir,  
W85-00736 1802 8C

**LIM, D. V.**  
Recovery of Selected Pathogens from Naples Bay, Florida, and Associated Waterways,  
W85-02397 1805 5B

**LIM, G.**  
Comparison of Fungi from Polluted Water,  
W85-01449 1803 5C

**LIM, L. H.**  
Tolerance to and Uptake of Lead in the Green Mussel, *Perna viridis* (L.),  
W85-04708 1809 5C

**LIMA, A. R.**  
Acute and Chronic Toxicities of Arsenic(III) to Fathead Minnows, Flagfish, Daphnids, and an Amphipod,  
W85-02423 1805 5C

**LIMA, N. R. W.**  
Size and Metal Concentration in the Mangrove Mussel *Mytilia guyanensis* (Mollusca: Bivalvia) from Baia de Sepetiba, Brazil,  
W85-02718 1806 5A

**LIMAT, L.**  
Transport Phenomena - New Experimental Results in Hydrodynamical 'Forced Rayleigh Scattering' (Phénomènes de Transport - Nouveaux résultats expérimentaux en diffusion 'Rayleigh forcee' hydrodynamique),  
W85-01745 1804 1A

**LIMBACH, E. W.**  
Single Tariff Pricing,  
W85-03615 1807 6C

**LIMONI, B.**  
Determination of Oxidants Formed upon the Disinfection of Drinking Water with Chlorine Dioxide,  
W85-01743 1804 5A

**LIN, A.**  
Storm Runoff and Water Quality on Three Ephemeral Washes in the Price River Basin, Utah,  
W85-01325 1803 5C

**LIN, C. H.**  
Evaluation of a Moving-Co-ordinate System Model of Salinity Intrusion into the Mersey Estuary,  
W85-04528 1809 2L

Nitrogen Cycle and Algal Growth Modeling,  
W85-03335 1807 5B

Note on the Prediction of Dissolved Oxygen Concentration in Estuaries,  
W85-04529 1809 2L

**LIN, J. G.**  
Color Removal from Sulfite Wastes with Cationic Surfactants,  
W85-05404 1810 5D

**LIN, M. H.**  
Auxiliary Demineralization System for Liquid Radioactive Waste,  
W85-05266 1810 5D

**LIN, S.**  
Evaluation of Wastes from the East St. Louis Water Treatment Plant and Their Impact on the Mississippi River,  
W85-06343 1812 5C

Facile Incorporation of Bromine into Aromatic Systems under Conditions of Water Chlorination,  
W85-03671 1807 5B

Increased Chloroform Production from Model Components of Aquatic Humus and Mixtures of Chlorine Dioxide/Chlorine,  
W85-03664 1807 5F

Susceptibility of Environmentally Important Heterocycles to Chemical Disinfection: Reactions with Aqueous Chlorine, Chlorine Dioxide, and Chloramine,  
W85-02804 1806 5C

**LIN, S. D.**  
Giardia Lamblia and Water Supply,  
W85-04829 1809 5F

**LIN, S. J.**  
Mixing Layer: Deterministic Models of a Turbulent Flow. Part 3. The Effect of Plane Strain on the Dynamics of Streamwise Vortices,  
W85-00714 1802 2E

**LIN, Z.**  
Nitrogen Migration in Zhujiang River (in Chinese),  
W85-06010 1811 5B

**LIND, A.**  
Practical Experiences on Package Treatment Plants,  
W85-05210 1810 5D

**LIND, A. E.**  
Environmental Law and Policy versus the Hydrocycle,  
W85-00920 1802 6E

**LIND, O. T.**  
Patterns of Phytoplankton Populations and Their Relationship to Trophic State in an Elongate Reservoir,  
W85-05631 1810 2H

**LIND, W. B.**  
Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Brazoria, Fort Bend, and Waller Counties, Texas, 1975-79,  
W85-01819 1804 2F

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Chambers, Liberty, and Montgomery Counties, Texas, 1975-79,  
W85-01818 1804 2F

**LINDQVIST, J. K.**

Relations between Color and Some Limnological Characteristics of Florida Lakes,  
W85-01372 1803 2H

**LINDBERG, R. D.**  
Ground Water Redox Reactions: An Analysis of Equilibrium State Applied to Eh Measurements and Geochemical Modeling,  
W85-02357 1805 2F

**LINDBERG, S. E.**  
Factors Influencing Trace Metal, Sulfate and Hydrogen Ion Concentrations in Rain,  
W85-00241 1801 2K

**LINDEN, E.**  
Use of the Bivalve *Mytilus edulis* as a Test Organism for Bioconcentration Studies. I. Designing a Continuous-Flow System and Its Application to Some Organochlorine Compounds,  
W85-06743 1812 5C

**LINDER, G.**  
Constituent Bioconcentration in Rainbow Trout Exposed to a Complex Chemical Mixture,  
W85-02416 1805 5B

**LINDER-LUNSFORD, J. B.**  
Calibration and Verification of a Rainfall-Runoff Model and a Runoff-Quality Model for Several Urban Basins in the Denver Metropolitan Area, Colorado,  
W85-02044 1804 2A

**LINDGAARD-JORGENSEN, P.**  
Biodegradation of 4-Nitrophenol in Standardized Aquatic Degradation Tests,  
W85-02944 1806 5B

**LINDHOLM, O.**  
Norwegian Activities on Collection and Research on Rainfall Data,  
W85-01691 1804 2B

**LINDHOLM, T.**  
Ecological Variation of Mire Site Types in the Small Kettle-Hole Mire Heinisuo, Southern Finland,  
W85-02485 1805 2L

**LINDHOMLM, T.**  
Moisture Conditions in Hummocks and Hollows in Virgin and Drain Sites on the Raised Bog Laaviosuo, Southern Finland,  
W85-05873 1811 2H

**LINDMARK, G. K.**  
Acidified Lakes: Ecosystem Response Following Sediment Treatment with Sodium Carbonate,  
W85-04539 1809 5G

Acidified Lakes: Sediment Treatment with Sodium Carbonate - A Remedy,  
W85-02096 1804 5G

**LINDNER, J. B.**  
Geohydrology of the Meadowbrook Artificial-Recharge Project Site in East Meadow, Nassau County, New York,  
W85-01774 1804 2F

Sources of Nitrate in Ground Water in a Sewered Housing Development, Central Long Island, New York,  
W85-01529 1803 5B

**LINDQVIST, J. K.**  
Modern Sedimentation at Falls Dam. Upper Manuherikia River, Central Otago, New Zealand,  
W85-03488 1807 2J

## AUTHOR INDEX

**LINDROTH, A.**

**LINDROTH, A.**  
Canopy Conductance of Coniferous Forests Related to Climate,  
W85-05792 1810 2I

**LINDSAY, B. E.**  
New Hampshire Water Systems: Environmental and Ownership Considerations,  
W85-04997 1810 6B

Uncertainty in Water Resource Planning: An Economic Evaluation of a Water Use Reduction Alternative,  
W85-00862 1802 6C

**LINDSTRÖM, E.-A.**  
Influence of Current Velocity on Periphyton Distribution and Succession in a Norwegian Soft Water River,  
W85-05677 1810 2H

**LINDSTRÖM, F. T.**  
Waste Disposal Technologies for Polychlorinated Biphenyls,  
W85-07074 1812 5E

**LINDSTRÖM, N. S.**  
Particle Discrimination Effects in the Determination of Trace Metals in Natural Fresh Waters,  
W85-06252 1812 5A

**LINES, L.**  
Interaction Between Riparian Vegetation, Water Temperature, and Salmonid Habitat in the Tu-cannon River,  
W85-06239 1812 2H

Pheasant (*Phasianus colchicus*) Habitat Suitability Model,  
W85-00662 1801 6G

**LINK, S. O.**  
Influence of Water on CO<sub>2</sub> Exchange in the Lichen *Parmelia prae signis* Nyl.,  
W85-02901 1806 2I

**LINN, D.**  
Tetrachloro-9H-Carbazole, a Previously Unrecognized Contaminant in Sediments of the Buffalo River,  
W85-00927 1802 5C

**LINSE, D.**  
Base of Concrete Dams - Loading and Design (Die Grundungsfuge von Staumauern - Beanspruchung und konstruktive Ausbildung),  
W85-03257 1807 8A

**LINSEY, A. K.**  
Verification of MAPS Cost Estimating Procedures,  
W85-06949 1812 6C

**LINSTEIDT, K. D.**  
Ozone Enhanced Biological Activated Carbon in Denver, Colorado: A Pilot Plant Study,  
W85-05826 1810 5D

**LINTHURST, R. A.**  
Comparison of Daily and Weekly Precipitation Sampling Efficiencies Using Automatic Collectors,  
W85-05694 1810 7B

**LINVILL, D. E.**  
Automating a Class A Evaporation Pan for Semi-Continuous Recording,  
W85-01065 1802 2D

**LIONG, S.-Y.**  
Channel Design and Flow Operation Without Choke,  
W85-03822 1808 8B

**LIPPERT, K.**  
Rising Ground Water - Problem or Resource,  
W85-00307 1801 4B

**LIPPY, E. C.**  
Waterborne Outbreak Control: Which Disinfectant,  
W85-01198 1803 5F

<b>LISHMAN, J. P.</b>	Contemporary Lake Transport Processes Determined from Sedimentary Records of Copper Mining Activity, W85-06150	1811 2J	<b>LITZAU, J. T.</b>	Acid Rain: Ionic Correlations in the Eastern United States, 1980-1981, W85-01540	1803 5B
<b>LISHTVAN, I. I.</b>	Change in the Hydrophysical Properties of Peat-Bog Soils after Application of Hydrolyzed Polyacrylonitrile, W85-06752	1812 3B	<b>LIU, D.</b>	Effect of Bacterial Cultures on Microbial Toxicity Assessment, W85-05009	1810 5A
				Fate of Oil Dispersants in Aquatic Environment, W85-00742	1802 5B
<b>LISLE, J. T.</b>	Convenient Apparatus for Microbiological Sampling of River Waters, W85-04308	1808 7B	<b>LIU, K.-B.</b>	Discovery of Permanent Amazon Lakes and Hydraulic Disturbance in the Upper Amazon Basin, W85-04307	1808 2H
<b>LISS, P. S.</b>	Control by Organic Coatings of the Surface Charge of Estuarine Suspended Particles, W85-07073	1812 2L	<b>LIU, P.</b>	Optimization Model for Ground-Water Planning, W85-01569	1803 6A
<b>LIST, F.</b>	Monitoring of the Grout Curtain of Frauenau Dam (Kontrolle der Untergrundabdichtung des Staaudamms Frauenau), W85-03263	1807 8E	<b>LIU, P. C.</b>	Response of the Coastal Boundary Layer to Wind and Waves: Analysis of an Experiment in Lake Erie, W85-02960	1806 2H
<b>LIST, S. M.</b>	Design, Start-up and Operation of a Low Pressure Wet Air Sludge Oxidation Unit, W85-04234	1808 5D	<b>LIU, P. L.-F.</b>	Refraction-Diffraction Model for Weakly Nonlinear Water Waves, W85-00715	1802 8B
<b>LISTENGARTEN, V. A.</b>	Chemical Composition of Groundwater of the Azerbaijan in Connection with Their Use for Domestic Water Supply, W85-04093	1808 2K	<b>LIU, Q.</b>	Variation in the Contents of Nitrogenous Compounds in Precipitation over Lake Donghu, Wuhan, W85-01047	1802 5B
<b>LITHNER, G.</b>	Biochemical and Hematological Studies on Perch, <i>Perca fluviatilis</i> , from the Cadmium-Contaminated River Eman, W85-00272	1801 5C	<b>LIU, Y.-H.</b>	Multi-Objective Optimization Model for Aquifer Management under Transient and Steady-State Conditions, W85-06562	1812 4B
<b>LITININYUK, A. F.</b>	Canals Under Blizzard Conditions, W85-03581	1807 8A	<b>LIUKKONEN, R. J.</b>	Facile Incorporation of Bromine into Aromatic Systems under Conditions of Water Chlorination, W85-03671	1807 5B
<b>LITT, A. H.</b>	Mt. St. Helens Ash in Lakes in the Lower Grand Coulee, Washington State, W85-02643	1805 5C		Implications of Treating Water Containing Polynuclear Aromatic Hydrocarbons with Chlorine; A Gas Chromatographic-Mass Spectrometric Study, W85-01207	1803 5B
<b>LITTLE, J. R.</b>	Flow-Duration Hydrographs for Selected Streamflow Stations on South Dakota Streams, W85-03923	1808 2E		Increased Chloroform Production from Model Components of Aquatic Humus and Mixtures of Chlorine Dioxide/Chlorine, W85-03664	1807 5F
<b>LITTLE, R. W.</b>	Screening: A New Approach, W85-04523	1809 5D	<b>LIVERMORE, D.</b>	Chloride Budget for the Mississippi River Headwaters to Mouth, W85-02976	1806 5B
<b>LITTLE, T. G.</b>	Court-Appointed Special Masters in Complex Environmental Litigation: City of Quincy v. Metropolitan District Commission, W85-04182	1808 6E	<b>LIVINGSTON, M. J.</b>	Toxic Effects of Petroleum and Shale JP-4 and JP-8 Aviation Fuels on Fathead Minnows, W85-06238	1812 5C
<b>LITTLEPAGE, J. L.</b>	Marine Disposal of Mine Tailing, W85-02324	1805 5C	<b>LIVINGSTON, M. L.</b>	Treating Water Institutions as Endogenous Variables: Demonstration of a Conceptual Model, W85-06235	1812 6E
<b>LITTLER, M. M.</b>	Analysis of Seaweed Communities in a Disturbed Rocky Intertidal Environment near Whites Point, Los Angeles, Calif., U.S.A., W85-03502	1807 2L	<b>LIVINGSTON, R. J.</b>	Relationship of Physical Factors and Biological Response in Coastal Seagrass Meadows, W85-05705	1810 2L
<b>LITTON, L. L.</b>	Attrition Rates of Soil-Cement Subjected to Water Jets, W85-06062	1811 8F		Trophic Response of Fishes to Habitat Variability in Coastal Seagrass Systems, W85-01890	1804 2L
<b>LITWACK, H.</b>	Recommended Procedures for Evaluating Trade-Offs Between CBOD and NBOD in the Wasteload Allocations, (Draft), W85-06365	1812 6A	<b>LIVINGSTONE, D.</b>	Water Chemistry and Phosphatase Activity of the Blue-Green Alga <i>Rivularia</i> in Upper Teesdale Streams, W85-02283	1805 2H

## AUTHOR INDEX

LOMEN, D. O.

**LIZANEC, T.**  
Application of Resistivity Surveys to Regional Hydrogeologic Reconnaissance, W85-00357 1801 7B

**LJUNGREN, H.**  
Reduction of Nitrogen, W85-05213 1810 5D

Reduction of Organic Matter with Focus on the Clogging Phenomenon, W85-05214 1810 5D

**LLAMAS, M. R.**  
Ground-Water Age Distribution in Madrid Basin, Spain, W85-00346 1801 2F

**LLOYD, C. A.**  
Effect of Sludge Quality and Rate, Soil pH, and Time on Heavy Metal Residues in Leafy Vegetables, W85-05382 1810 5E

**LLOYD, J. W.**  
Groundwater Chemistry in Southeast Suffolk (U.K.) and Its Relation to Quaternary Geology, W85-04272 1808 2K

Integrated Hydrochemical Approach to Deduce the Response of an Aquifer System During Its History of Abstraction, W85-03153 1806 2F

Use of Resistivity and Gamma Logging in Lithostratigraphical Studies of the Chalk in Lincolnshire and South Humberside, W85-03772 1808 7B

**LLOYD, P. J.**  
Pollution Management and the Tidal Thames, W85-04527 1809 5G

**LLOYD, T.**  
Aquatic Ecology of the New Jersey Pinelands, W85-00814 1802 6G

**LLOYD, T. S.**  
Geological Factors Influencing Well Productivity on the Georgia Piedmont, W85-06319 1812 2F

**LO, H. H.**  
Geochemical Study of Lake Erie Water Near Cleveland, Ohio, W85-00810 1802 2H

**LO, K. Y.**  
Predicted and Measured Stresses and Displacements Around the Darlington Intake Tunnel, W85-03421 1807 8E

**LOAGUE, K. M.**  
Comparison of Rainfall-Runoff Modeling Techniques on Small Upland Catchments, W85-05502 1810 2A

**LOCH, J. P. G.**  
Transport of Cationic Solutes in Sorbing Porous Media, W85-01345 1803 2G

**LOCK, J. D.**  
Use of Bacteriological Indicators for Swimming Water Quality, W85-04765 1809 5A

**LOCK, M. A.**  
Microcalorimetric Approach to Determine Relationships Between Energy Supply and Metabolism in River Epilithon, W85-05052 1810 2H

Spatial Uptake of Dissolved Organic Carbon in River Beds, W85-01009 1802 5B

**LOCKART, W. L.**  
Bioaccumulation of Some Forestry Pesticides in Fish and Aquatic Plants, W85-06772 1812 5C

**LOCKINGTON, D.**  
Optimal Prediction of Saturation and Wetting Fronts during Trickle Irrigation, W85-00751 1802 2G

**LOCKYER, C.**  
Particulate Load of the Red River, St. Ives Bay: Its Geochemical Composition and the Effect of its Discharge Plume on the Behaviour of a Resident Wild Dolphin, W85-06880 1812 5C

**LODAL, J.**  
Quantitative Estimates and Community Structure of Invertebrates in a Macrophyte Rich Stream, W85-06443 1812 2H

**LODER, T. C.**  
Control by Organic Coatings of the Surface Charge of Estuarine Suspended Particles, W85-07073 1812 2L

**LOEB, S. L.**  
Littoral Phytoplankton Productivity and Biomass as Indicators of Differential Nutrient Loading of Lake Tahoe, W85-02651 1805 5C

Transformations of Nitrogen Following an Epilimnetic Nitrogen Fertilization in Castle Lake, CA: 1. Epilithic Periphyton Responses, W85-06397 1812 2H

**LOEHR, L. C.**  
Case Study of the Abuse of Science in Sewage Planning, W85-04379 1808 6B

**LOEHR, R. C.**  
Hydraulic Loading for Land Treatment Sites Under Non-Ideal Conditions, W85-05401 1810 5D

Land Treatment of Wastes: Concepts and General Design, W85-06018 1811 5D

**LOER, S.**  
Rehabilitation of the Bituminous Slope Lining at the Ohra Dam (Sanierungsarbeiten an der Bituminosen Aubenhaut der Ohra-Talsperre), W85-03456 1807 8A

**LOESCH, J. G.**  
Kepone Concentration in Juvenile Anadromous Fishes, W85-01847 1804 5B

**LOFTIS, B.**  
Water Quality Optimization through Selective Withdrawal, W85-06974 1812 5G

**LOFTIS, J.**  
Minimizing Capital Costs of Multi-Outlet Pipelines, W85-01509 1803 8A

**LOFTIS, J. C.**  
Survey of State Water Quality Monitoring Programs, W85-00973 1802 7B

**LOFTUS, K. H.**  
Fisheries: Past, Present, and Future in the Great Lakes, W85-00923 1802 2H

**LOGAN, J. W. M.**  
Low Concentration Effects of Endosulfan Insecticide on Reproductive Behaviour in the Tropical Cichlid Fish Sarotherodon mossambicus, W85-02967 1806 5C

**LOGAN, T. J.**  
Accelerated Implementation Program for Reducing the Diffuse-Source Phosphorus Load to Lake Erie, W85-05964 1811 5G

Effects of Phosphate Fertilizer Applications and Chemistry-Mineralogy of the Iron Oxide System on Phosphate Adsorption-Desorption by Stream Sediments, W85-01794 1804 5B

Factors Affecting the Volatilization of Ammonia from Land Applied Sewage Sludges, W85-05386 1810 5E

Mechanisms for Release of Sediment-Bound Phosphate to Water and the Effects of Agricultural Land Management on Fluvial Transport of Particulate and Dissolved Phosphate, W85-02095 1804 5B

**LOGANATHAN, G. V.**  
Effects of Urbanization on Frequencies of Overflows and Pollutant Loadings from Storm Sewer Overflows: A Derived Distribution Approach, W85-02152 1804 5B

**LOGIE, J. G.**  
New Port of Sapele, Nigeria, W85-02948 1806 8A

**LOGSDON, G. S.**  
Engineering and Operating Approaches for Controlling Asbestos Fibers in Drinking Water, W85-02714 1806 5F

Evaluating Sedimentation and Various Filter Media for Removal of Giardia Cysts, W85-04832 1809 5F

Pilot-Plant Studies of Slow-Rate Filtration, W85-04408 1808 5F

Removing Giardia Cysts with Slow Sand Filtration, W85-04831 1809 5F

**LOHANI, B. N.**  
Water Quality Index for Chao Phraya River, W85-03807 1808 3A

**LOHMILLER, P. A.**  
Computerized Distribution Records- CADD Paves the Way, W85-01902 1804 5F

**LOHNES, R. A.**  
Attrition Rates of Soil-Cement Subjected to Water Jets, W85-06062 1811 8F

**LOISELLE, A. A.**  
Seepage Through Till Foundations of Dams of the Eastmain - Opinaca - La Grande Diversion, W85-03418 1807 2F

**LOKKE, H.**  
Eccepidemiology - A Casuistic Discipline Describing Ecological Disturbances and Damages in Relation to Their Specific Causes: Exemplified by Chlorinated Phenols and Chlorophenoxy Acids, W85-04777 1809 5C

Effects of 2,4-Dichlorophenoxyacetic Acid in Artificial Acid Rain on Brassica napus and Sinapis alba, W85-02697 1806 5C

**LOMAX, K. M.**  
Blue Crab Processing Plant Effluent Treatment, W85-01741 1804 5D

**LOMEMA, T.**  
Some Limnological Characteristics of a Temperate Forest Pond, W85-05651 1810 2H

**LOMEN, D. O.**  
Design Nomographs for Trickle Irrigation Systems, W85-01505 1803 8A

Generalized Solution to Infiltration, W85-05182 1810 2G

## AUTHOR INDEX

**LOMEN, D. O.**

Salt and Water Transport in Unsaturated Soil for Non-Conservative Systems, W85-06686 1812 2G

**LOMNITZ, E.** Comparing Priority Pollutants in Municipal Sludges, W85-05057 1810 5D

**LONG, B. F.** Development of Liquid and Solid Discharges of a Sub-Boreal Estuary: The St-Jean River, Quebec (North Coast of the Gulf of St-Lawrence) (Evolution du débit liquide et de la charge solide d'un estuaire sub-boreal: rivière St-Jean, Québec (côte nord du golfe du St-Laurent)), W85-00144 1801 2L

Estuarine Development of a Regulated River in a Sub-Boreal Climate: The Outardes River (North Coast of the St. Lawrence Gulf, Quebec) (Evolution Estuarienne d'une Rivière Regularisée En Climat Sub-Boreal: La Rivière Aux Outardes (Côte Nord du Golfe du St-Laurent, Québec)), W85-00956 1802 2J

**LONG, D. A.** Effect of Soil Depth on Wastewater Renovation, W85-06609 1812 5D

Optimization of Secondary Cooling Water Filtration in a Continuous Stainless Steel Casting Process, W85-05285 1810 5D

**LONG, J. C. S.** Model for Investigating Mechanical Transport in Fracture Networks, W85-03163 1806 2F

**LONG, N. R.** Tenth Amendment not Violated by Requiring Local Governmental Compliance with the Clean Water Act, W85-01250 1803 6E

**LONG, S. P.** Macro-Invertebrate Populations and Production on a Salt-Marsh in East England Dominated by *Spartina anglica*, W85-05703 1810 2L

**LONG, W. L.** Evaluation of Semicircular Canals, W85-04221 1808 8A

**LONGMAN, A. D.** Sri Lanka's Kotmale Hydro Project, W85-05818 1810 8A

**LONGMORE, M. E.** <sup>137</sup>Cs Diffusion in the Highly Organic Sediment of Hidden Lake, Fraser Island, Queensland, W85-03497 1807 2H

**LOO, W. W.** Application of Telemetry to Large-Scale Horizontal Anisotropic Permeability Determinations by Surface Tiltmeter Survey, W85-03184 1806 7B

**LOOMIS, S. A.** Rangeland Erosion Measurements for the USLE, W85-04728 1809 2J

**LOPATIN, A. N.** Determination of the Flow Rate in a Pressure Pipe by Measuring the Velocity at one Point of a Convergent Nozzle Exit Section, W85-06709 1812 8B

Measurement of Discharge in Pressure Conduits by Means of Segmented Constrictors, W85-00469 1801 8B

On-Site Tests of a Segmental Constriction as a Flowmeter in Large Diameter Pipes, W85-05985 1811 8A

**LOPATIN, N. A.** Technical Assistance of the USSR in the Construction of Hydroelectric Stations Abroad, W85-00498 1801 8A

**LOPES, U. B.** Chemical Limnology of Lake Arroz (Careiro Island), Resulting From Water Level Fluctuations in the Central Amazon River (Limnologia Química do Lago do Arroz (Ilha do Careiro), Suas Flutuações em Função do Meio Hídrico do Rio Amazonas), W85-02815 1806 2H

**LOPEZ, A. R.** Sludge Reduction by In-Plant Process Modification: New York City's Experiences, W85-07039 1812 5E

**LOPEZ, M. A.** Regional Flood Relations for Unregulated Lakes in West Central Florida, W85-03960 1808 2E

**LOPEZ, P.** Limnology of Galicanta Lake, Aragon, Northeastern Spain, W85-05757 1810 2H

**LOPP, H.** Energy Studies of Wastewater-Treatment Facilities as a Basis for Optimal Energy Use (Energiesstudien von Abwasserbehandlungsanlagen als Grundlage für den optimalen Energieeinsatz), W85-01878 1804 5D

**LOPUSHINSKY, W.** Effects of Cold Soil on Water Relations and Spring Growth of Douglas-fir Seedlings, W85-03128 1806 2I

**LORANGER, T. J.** Temperature Characteristics, Annual Heat Storage, and River Diversion Influence on a Monomictic Lake, W85-03110 1806 2H

**LORD, D. G.** Distribution of Volatile Organic Compounds in a New Jersey Coastal Plain Aquifer System, W85-06825 1812 5B

**LORD, W. B.** Institutions and Technology: Keys to Better Water Management, W85-03130 1806 6B

**LORE, F.** Influence of the Charge Density of Cationic Polyelectrolytes on Sludge Conditioning, W85-04494 1809 5D

**LORE, J. A.** Acid Deposition near a Sour Gas Plant in Southwestern Alberta, W85-06373 1812 5B

**LORENZ, W. F.** Ozone Enhanced Biological Activated Carbon in Denver, Colorado: A Pilot Plant Study, W85-05826 1810 5D

**LORENZ, W. T.** New Ideas Reshaping Treatment Technologies, W85-04751 1809 5D

**LORENZEN, W. E.** Growth Responses of Fish to Changing Environmental Conditions in a South Carolina Cooling Reservoir, W85-01496 1803 6G

**LORENZON, G.** Heavy Metal Uptake and Intracellular Binding in Isolated Gill Preparations of *Mytilus galloprovincialis* L., W85-04358 1808 5C

**LORENZONI, M.** Determination of the Trophic State of Lake Trasimeno by Indirect Analysis of Nitrogen and Phosphorus (Determinazione dello Stato Trofico Del Lago Trasimeno Attraverso La Valutazione Indiretta Dell'Azoto e Del Fosforo), W85-02497 1805 5C

**LORES, E. M.** Determination of Fenothion Residues in Samples of Marine Biota and Seawater from Laboratory Exposures and Field Applications, W85-06581 1812 5A

**LOS, F. J.** Modelling Eutrophication in Shallow Dutch Lakes, W85-04551 1809 5C

Modelling the Eutrophication Process of Lake IJssel, W85-00578 1802 5C

**LOSEL, P.** Studies on Securing and Increasing the Effectiveness of Older Dams (Beiträge zur Sicherung und Erhöhung der Effektivität alterer Talsperren), W85-03451 1807 4A

**LOSEY, G. T.** Magnitude and Frequency of Floods from Urban Streams in Leon County, Florida, W85-02047 1804 4A

**LOSOS, B.** Influence of Pollution on the Density and Production of Chironomidae (Diptera) in Running Waters, W85-00796 1802 5C

**LOUCKS, D. P.** Interactive Computer Technology for Planning and Policy Modeling, W85-05491 1810 6A

Interactive Data Management for Resource Planning and Analysis, W85-05493 1810 6A

Interactive Water Resources Modeling and Model Use: An Overview, W85-05489 1810 6B

Stochastic Dynamic Programming Models for Reservoir Operation Optimization, W85-03551 1807 2E

**LOUCKS, O. L.** Assessment of Aquatic Resources Altered or at Risk From Acidic Deposition, W85-00936 1802 5B

U.S./Canada Aquatic Impacts Assessment: Integration of Experimental Studies, Monitoring and Modeling of Acidic Deposition Effects, W85-05322 1810 2A

**LOUTIT, M. W.** Effect of Effluent High in Chromium on Marine Sediment Aerobic Heterotrophic Bacteria, W85-04869 1809 5C

**LOUVO, J.** Bark Chip Decomposition Latrines, W85-05208 1810 5D

**LOVE, W. R.** Cuyahoga Falls: A River Returned to the People, W85-04178 1808 6G

**LOVEGROVE, S. M.** Uptake and Accumulation of Zinc in Juvenile Rainbow Trout, *Salmo gairdneri*, W85-01120 1803 5C

**LOVEJOY, S. B.** Soil Loss Reduction in Finley Creek, Indiana: An Economic Analysis of Alternative Policies, W85-05963 1811 5G

**AUTHOR INDEX**

**LUKASEWYCZ, M. T.**

**LOVELL, C. J.**  
Comparison of Steady-State Land-Drainage Equations, W85-03479 1807 2F

**LOVELL, C. R.**  
Excretion of Photosynthetically Fixed Organic Carbon by Metalimnetic Phytoplankton, W85-05876 1811 2H

Primary and Bacterial Production in Two Dimictic Indiana Lakes, W85-05507 1810 2H

Seasonal Bacterial Production in a Dimictic Lake as Measured by Increases in Cell Numbers and Thymidine Incorporation, W85-05508 1810 2H

Thymidine Incorporation by Free-Living and Particle-Bound Bacteria in a Eutrophic Dimictic Lake, W85-05509 1810 2H

**LOVETT, M. B.**  
Incorporation of Plutonium, Americium and Curium into the Irish Sea Seabed by Biological Activity, W85-04357 1808 5B

**LOVLEY, D. R.**  
Sulfate Reducers Can Outcompete Methanogens at Freshwater Sulfate Concentrations, W85-00098 1801 2H

**LOWE, D. R.**  
Changes in the Organic Fraction of Leachate from Two Domestic Refuse Sites on the Sherwood Sandstone, Nottinghamshire, W85-03771 1808 5B

**LOWE-JINDE, L.**  
Short-Term and Long-Term Effects of Cadmium on Glycogen Reserves and Liver Size in Rainbow Trout (*Salmo gairdneri* Richardson), W85-03228 1807 5C

**LOWE, P.**  
Accelerated Cold Digestion: A New Look at an Old Technique, W85-04591 1809 5D

**LOWE, R. L.**  
Artificial Substrates which Release Nutrients: Effects on Periphyton and Invertebrate Succession, W85-02479 1805 5C

Primary Productivity and Spatial Structure of Phytoithic Growth in Streams in the Great Smoky Mountains National Park, Tennessee, W85-06793 1812 2H

**LOWE, T. P.**  
National Contaminant Biomonitoring Program: Concentrations of Seven Elements in Freshwater Fish, 1978-1981, W85-07161 1812 5B

**LOWERY, B.**  
Effect of Sludge Application of Physical Properties of a Silty Clay Loam Soil, W85-06715 1812 5E

Soil Moisture Regimes of Three Conservation Tillage Systems, W85-04737 1809 2G

**LOWMAN, S. M.**  
Setting Agricultural Pollution Control Priorities, W85-05949 1811 5G

**LOWRANCE, R.**  
Managing Riparian Ecosystems to Control Non-point Pollution, W85-05956 1811 5G

Riparian Forests as Nutrient Filters in Agricultural Watersheds, W85-00127 1801 2I

**LOWRANCE, R. R.**  
Nutrient Budgets for Agricultural Watersheds in the Southeastern Coastal Plain, W85-04826 1809 6G

**LOWTHION, D.**  
Nutrient Removal Trials and Bioassay Evaluation at Budds Farm Sewage-Treatment Works, Havant, W85-04526 1809 5D

**LOXHAM, M.**  
Spread of Pollutants from Harbour Sludge Depots, W85-00572 1802 5E

**LOZANSKY, V. R.**  
Methodological Principles for Ecological Classification of Surface Water Quality (O Metodologicheskikh Osnovakh Ekologicheskoi Klassifikatsii Kachestva Poverkhnostnykh vod Sushi), W85-06473 1812 5A

**LOZHINKIN, S. N.**  
Ecological Aspects of the Design and Operation of Conduits of Hydroelectric Schemes, W85-05986 1811 5G

**LU, F.**  
Nitrification of Anaerobically Treated Coal Gasifier Effluent, W85-02587 1805 5D

Variation in the Contents of Nitrogenous Compounds in Precipitation over Lake Donghu, Wuhan, W85-01047 1802 5B

**LU, J.**  
Medium and Small Masonry Arch Dams in China, W85-04950 1809 8A

**LU, Y.**  
Application of Carrier/Activated Sludge Process for Treatment of Phenolic Wastewater, W85-05552 1810 5D

**LUBBERS, J. R.**  
Controlled Clinical Evaluations of Chlorine Dioxide, Chlorite and Chlorate in Man, W85-01205 1803 5F

**LUBIS, S. M.**  
Moisture Budget During the 1978-79 Southern Hemisphere Summer Monsoon, W85-04023 1808 2B

**LUBKE, R. A.**  
Effects of Dredging on the Macrophytic Vegetation of the Boro River, Okavango Delta, Botswana, W85-03762 1807 6G

**LUCE, H. D.**  
Ground Water Monitoring at a Septage Lagoon Facility in Connecticut, W85-00365 1801 5B

**LUCENA, J.**  
Rapid and Sensitive Automated Determination of Phosphate in Natural Waters, W85-05622 1810 5A

**LUCKEY, R. R.**  
Data Management System for Areal Interpretive Data for the High Plains in Parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming, W85-00593 1802 7C

**LUCKNER, L.**  
Minicomputer Program for Water-Level Calculation and Forecasting and Its Testing on the Oder Between Eisenhuttenstadt and Kietz (Kleinrechnerprogramm zur Wasserstandsberchnung und -vorhersage und Dessen Erprobung am Odersabschnitt Eisenhuttenstadt-Kietz), W85-03518 1807 2E

**LUCOTTE, M.**  
Forms of Phosphorus and Phosphorus-Iron Relationships in the Suspended Matter of the St. Lawrence Estuary, W85-03764 1807 2L

**LUDLAM, S. D.**  
Fayetteville Green Lake, New York, U.S.A. VII. Varve Chronology and Sediment Focusing, W85-01101 1802 2J

Fayetteville Green Lake, New York, U.S.A. VIII. Mass Balance for 137-Cs in Water, Varved and Non-varved Sediments, W85-01102 1802 5B

**LUDWICK, J. C.**  
Turbulence Measurements Over a Sand Wave in Lower Chesapeake Bay, Virginia, W85-03348 1807 2L

**LUDWIG, D. A.**  
Subchronic Toxicity of Chlorine Dioxide and Related Compounds in Drinking Water in the Nonhuman Primate, W85-01204 1803 5F

**LUE-HING, C.**  
Implementation of a User Charge System Incorporating a Dedicated Ad Valorem Tax Structure, W85-05277 1810 6C

**LUGG, D. G.**  
Field Study of Plant Resistance to Water Flow in Alfalfa, W85-03360 1807 2I

**LUGOVOI, V. P.**  
Experience in Constructing Radial Wells in Fine Sands, W85-00447 1801 8D

**LUGTEN, M.**  
Comparison of Current Methods of Poliovirus Concentration from Tap Water, W85-04492 1809 5F

**LUI, P. H.**  
Numerical Solution of the Dispersion Equation Using a Variable Dispersion Coefficient; Method and Applications, W85-02828 1806 5B

**LUIJTEN, J. A.**  
Impact of Chlorine, Chlorine dioxide and Ozone on the Oxidation of NTA during Drinking Water Treatment, W85-02965 1806 5F

**LUKAJIC, B.**  
Predicted and Measured Stresses and Displacements Around the Darlington Intake Tunnel, W85-03421 1807 8E

**LUKAS, T. N.**  
When the Well Runs Dry: A Proposal for Change in the Common Law of Ground Water Rights in Massachusetts, W85-01309 1803 6E

**LUKASEWYCZ, M. K.**  
Implications of Treating Water Containing Polynuclear Aromatic Hydrocarbons with Chlorine: A Gas Chromatographic-Mass Spectrometric Study, W85-01207 1803 5B

**LUKASEWYCZ, M. T.**  
Facile Incorporation of Bromine into Aromatic Systems under Conditions of Water Chlorination, W85-03671 1807 5B

Increased Chloroform Production from Model Components of Aquatic Humus and Mixtures of Chlorine Dioxide/Chlorine, W85-03664 1807 5F

## AUTHOR INDEX

**LUKATELICH, R. J.**

**LUKATELICH, R. J.**  
Wind-Related Resuspension of Sediments in the  
Peel-Harvey Estuarine System, W85-06851 1812 2L

**LUKAVSKY, J.**  
Simple Cultivation Unit for the Evaluation of  
Algal Growth Potential and Toxicity of Water,  
W85-04983 1810 7B

**LUKENS, R. J.**  
Dredge Induced Turbidity Plume Model,  
W85-07078 1812 6G

**LUKYANOVA, O. N.**  
Metal-Binding Proteins and Activity of Alkaline  
Phosphatase in the Oyster *Crassostrea gigas* in  
Anthropogenically Polluted Environment (Met-  
talsvazyvayushchie Belki i Aktivnost' Shche-  
lochnoi Fosfatazy v Gigantskoi Ustriste, Obi-  
tayushchey v Usloviyakh Antropogennoy Za-  
gryazneniya), W85-02719 1806 5C

**LUM, W. E. II.**  
Availability of Ground Water from the Alluvial  
Aquifer on the Nisqually Indian Reservation,  
Washington, W85-03891 1808 2F

Fluoride, Nitrate, and Dissolved-Solids Concentra-  
tions in Ground Waters of Washington,  
W85-01828 1804 2F

Reconnaissance of the Water Resources of the  
Shoalwater Bay Indian Reservation and Adja-  
cent Areas, Pacific County, Washington, 1978-  
79, W85-03906 1808 2F

**LUMBERS, J. P.**  
Operational River Water Quality Management,  
W85-01414 1803 5G

**LUMIA, R.**  
Floods of August 7-8, 1979, in Chautauqua  
County, New York, with Hydraulic Analysis of  
Canadaway Creek in the Village of Fredonia,  
W85-02051 1804 2E

**LUNDOER, S.**  
Interactions between Phytoplankton, Zooplank-  
ton, and Fish in the Nutrient Rich Shallow Lake  
Hjarbaek Fjord, Denmark, W85-02564 1805 2H

**LUNG, W. S.**  
Two-Dimensional Mass Transport in Estuaries,  
W85-03006 1806 2L

Understanding Simplified Lake Acidification  
Models, W85-02822 1806 5B

**LUNSFORD, C. A.**  
Annual Cycle of Kepone Residue and Lipid  
Content of the Estuarine Clam, *Rangia cuneata*,  
W85-01844 1804 5C

**LUNZ, J. D.**  
Animal Substrate Relationships and Productivity of  
Invertebrate Macrobenthos of Mississippi  
Sound and Adjacent Coastal Areas: A Bibliogra-  
phy with Abstracts, W85-06911 1812 2L

**LUOMA, S. N.**  
Separation of Solute and Particulate Vectors of  
Heavy Metals Uptake in Controlled Suspension-  
Feeding Experiments with *Macoma balthica*,  
W85-05863 1811 5C

Trace Metals in San Francisco Bay, California,  
near the Proposed San Luis Drain Discharge  
Site: A Preliminary Report, W85-03927 1808 5A

**LUONSI, A.**  
Anaerobic Reactors for Treatment of Synthetic  
Wastewater Simulating the Organic Composi-  
tion of Sulphite Evaporator Condensate,  
W85-03682 1807 5D

**LUQUE DE CASTRO, M. D.**  
Spectrophotometric Determination of Cyanide  
by Unsegmented Flow Methods, W85-03408 1807 5A

**LURIA, M.**  
Rainwater pH in the Vicinity of Hadera Power  
Plant, Israel During the Winter Season of 1981-  
1982, W85-03597 1807 5A

**LUSBY, G. C.**  
Use of Rainfall-Simulator Data in Precipitation-  
Runoff Modeling Studies, W85-00837 1802 2A

**LUSIS, M. A.**  
Long-Term Precipitation Quality and Wet Dep-  
osition Fields in the Sudbury Basin, W85-03595 1807 5B

**LUSSE, B.**  
Investigations on the Influence of Algogenic  
Organic Matter on Flocculation and Flocseparation  
(Untersuchungen zur Beeinflussung der  
Flockung und Flockenabtrennung durch algen-  
artige organische Substanzen), W85-05451 1810 5F

Mass Cultivation of Planktonic Freshwater  
Algae for the Production of Extracellular Or-  
ganic Matter (EOM), W85-07026 1812 2H

Reaction Mechanisms Involved in the Influence  
of Algogenic Organic Matter on Flocculation,  
W85-05452 1810 5F

**LUTHER, G. W. III**  
Tidal and Seasonal Variations of Sulfate Ion in a  
New Jersey Marsh System, W85-01848 1804 5B

**LUTHY, R. G.**  
Liquid/Suspended Solid Phase Partitioning of  
Polycyclic Aromatic Hydrocarbons in Coal  
Coking Wastewaters, W85-00554 1802 5D

**LUITMER, W. J.**  
Use of Cohorts and Populations in Chronic Tox-  
icity Studies with *Daphnia magna*: A Cadmium  
Example, W85-05810 1810 5C

**LUTZKE, R.**  
Suggestion for Year-Round Wastewater Utiliza-  
tion in the Forestry Industry (Vorschlag zur  
ganzjährigen Abwasserverwertung in der  
Forstwirtschaft), W85-01971 1804 5D

**LUXMOORE, R. J.**  
Evapotranspiration and Soil Heterogeneity,  
W85-06679 1812 2D

**LYAMIN, M. YA.**  
Physical Model of the Aquatic Ecosystem,  
W85-04850 1809 2H

**LYFORD, F. P.**  
Estimates of Vertical Hydraulic Conductivity  
and Regional Ground-Water Flow Rates in  
Rocks of Jurassic and Cretaceous Age, San Juan  
Basin, New Mexico and Colorado, W85-00844 1802 2F

**LYGREN, E.**  
Acute Toxicity and Chemical Characteristics of  
Moderately Polluted Runoff from Highways,  
W85-00745 1802 5C

Effect of Highway Runoff on Lake Water Qual-  
ity, W85-00747 1802 5B

**LYKINS, B. W. JR.**  
GAC Treatment Costs: A Sensitivity Analysis,  
W85-02274 1805 5F

**LYLES, L.**  
Windbreak Effects on Soil Water and Wheat  
Yield, W85-03365 1807 3F

**LYNCH, D. R.**  
Mass Conservation in Finite Element Ground-  
water Models, W85-04162 1808 2F

**LYNCH, J. A.**  
Best Management Practices for Controlling  
Nonpoint-Source Pollution on Forested Water-  
sheds, W85-05971 1811 5G

Thermal Alteration of Streams Draining Clear-  
cut Watersheds: Quantification and Biological  
Implications, W85-00421 1801 5C

**LYNGBY, J. E.**  
Seasonal and Environmental Variation in Cad-  
mium, Copper, Lead and Zinc Concentrations in  
Eelgrass (*Zostera marina L.*) in the Limfjord,  
Denmark, W85-01080 1802 2L

**LYNN, I. H.**  
Distribution and Severity of Tunnel Gully Ero-  
sion in New Zealand, W85-02412 1805 2J

**LYONS, A. S.**  
United States v. Oswego Barge Corporation,  
W85-02177 1805 6E

**LYONS, C. D.**  
Mechanisms and Pathways of Aniline Elimina-  
tion from Aquatic Environments, W85-02932 1806 5B

**LYSENKO, P. E.**  
Forecast and Provision of Cavitation-Erosion  
Safety in High-Head Spillways, W85-01142 1803 8A

High-Head Spillway with Swirling of the Flow  
in the Outlet Section, W85-04420 1809 8A

**LYTHE, S.**  
Plant Zonation and the Effects of the Spring-  
Neap Tidal Cycle on Soil Aeration in a Humber  
Salt Marsh, W85-06369 1812 2L

**LYV, G.**  
Model for Predicting Ice Accretion and Abla-  
tion in Water Bodies, W85-02797 1806 2C

**MA, J.**  
Improving the Performance of Houston's South-  
west Wastewater Treatment Plant, U.S.A.,  
W85-03653 1807 5D

**MA, X.**  
Relationships Between Arsenic and Other Ele-  
ments (Iron, Aluminium, Manganese etc) in Sur-  
face Sediments of Bohai Bay (in Chinese),  
W85-04835 1809 2K

**MAARSCHALKERWEERD, J.**  
Ultraviolet Disinfection of Secondary Effluent,  
W85-01654 1804 5D

**MAAS, E. V.**  
Minimizing Salt in Drain Water by Irrigation  
Management - Leaching Studies with Alfalfa,  
W85-03483 1807 3F

Salt Tolerance of Corn in the Sacramento-San  
Joaquin Delta of California, W85-05925 1811 3C

**MAAS, H.**  
Aquatic Toxicity of 2,6-Dichlorobenzamide  
(BAM), a Degradation Product of the Herbicide  
Dichlobenil, W85-04944 1809 5C

## AUTHOR INDEX

**MAAS, R. P.**  
Selecting Critical Areas for Nonpoint-Source Pollution Control, W85-05950 1811 5G

**MAASS, A. E.**  
Water Plant Serves Two Masters, W85-00738 1802 5F

**MAATTA, R. K.**  
Anaerobic Wastewater Treatment Processes, W85-07004 1812 5D

**MABBS-ZENO, C. C.**  
Opportunity Costs of Preserving Coastal Wetlands: A Case Study of a Recreational Housing Development, W85-04754 1809 6B

**MABBUTT, J. A.**  
New Global Assessment of the Status and Trends of Desertification, W85-03201 1806 2A

**MACAL, C. M.**  
Engineering-Economic Simulation Model for Regional Wastewater Treatment Cost Functions, W85-06602 1812 5D

**MACALADY, D. L.**  
Effects of Sediment Sorption and Abiotic Hydrolyses. I. Organophosphorothioate Esters, W85-06249 1812 5B

**MACARTHUR, J. D.**  
Responses of Certain Freshwater Planktonic Algae to Fluoride, W85-01176 1803 5C

**MACAULAY, M. N.**  
Finding an Acceptable Approach for Disposal of Coal Combustion Residues in California, W85-05376 1810 5E

**MACCORMICK, M. J.**  
Predicting Volumetric Water Retentions for Subsoil Materials from Colchester County, Nova Scotia, W85-06154 1811 2G

**MACCOY, N. E. J.**  
Effect of Treatment with Reserpine on the Changes in Filtration Rate of *Mytilus edulis* Subjected to Dissolved Copper, W85-04378 1808 5C

**MACCRIMMON, H. R.**  
Mercury Uptake by Lake Trout, *Salvelinus namaycush*, Relative to Age, Growth, and Diet in Tadoussac Lake with Comparative Data from Other PreCambrian Shield Lakes, W85-00885 1802 5C

**MACCUBBIN, A. E.**  
Relative Contributions of Bacteria and Fungi to Rates of Degradation of Lignocellulosic Detritus in Salt-Marsh Sediments, W85-02138 1804 2L

**MACDONALD, R. W.**  
Effect of Wood Waste Dumping on Organic Matter in Seawater and Surficial Sediments of Alberni Inlet, British Columbia, W85-02533 1805 5C

**MACGREGOR, B.**  
Private and Social Cost - Benefit Perspectives and a Case Application on Reservoir Sedimentation Management, W85-04447 1809 4D

**MACHIELS, A. J.**  
Effects of Water Flow Rates on Leaching, W85-06778 1812 5B

**MACHON, A.**  
Uptake and Metabolism by Goldfish *Carassius auratus* of Pentachloro-2-(Chloromethyl Sulphonamido)Diphenyl Ether (6-PCSD), the Major Component and Active Ingredient of the Mothproofing Agent, Eulan WA New, W85-03048 1806 5A

**MACINNES, J. R.**  
Effects of Long-Term Exposure to Silver or Copper on Growth, Bioaccumulation and Histopathology in the Blue Mussel *Mytilus edulis*, W85-01355 1803 5C

**MACINTYRE, S.**  
Vertical Mixing in Amazon Floodplain Lakes, W85-04569 1809 2H

**MACK, F. K.**  
Difference Between the Potentiometric Surfaces of the Magothy Aquifer of September 1975 Differed from the Potentiometric Surface of September 1981 in Southern Maryland, W85-03931 1808 2F

**MACK, J. P.**  
Long-Term Confidence in Ground Water Monitoring Systems, W85-03183 1806 7B

**MACK, W.**  
Biozwei Tube-Reactor Procedure (Das Rohrreaktor-Verfahren Biozwei), W85-05141 1810 5D

**MACKAY, D.**  
Fate and Behaviour of Oil Spills, W85-05584 1810 5B

**MACKAY, D. C.**  
Soil Salinity Status and its Relation to Some of the Soil and Land Properties of Three Irrigation Districts in Southern Alberta, W85-06151 1811 4A

**MACKAY, D. M.**  
Transport of Organic Contaminants in Groundwater, W85-06704 1812 5B

**MACKAY, R. J.**  
Preliminary Study of Aquatic Insect Communities and Leaf Decomposition in Acid Streams near Dorest, Ontario, W85-06003 1811 5C

**MACKENZIE, A. L.**  
Effects of Mussel Aquaculture on the Nitrogen Cycle and Benthic Communities in Kenepuru Sound, Marlborough Sounds, New Zealand, W85-06211 1812 2L

**MACKENZIE, L.**  
Acetylene Reduction and Nitrogen Fixation Potential in Some Eutrophic Lake Sediments, W85-03075 1806 2K

**MACKEY, B.**  
Biological Treatability of Photoprocessing Wastewater: Part I, W85-05560 1810 5D

**MACKEY, D.**  
Trace Metals and the Productivity of Shelf Waters off North West Australia, W85-03494 1807 5C

**MACKIE, G. L.**  
Mollusca of Six Low-Alkalinity Lakes in Ontario, W85-00894 1802 2H

**MACKIERNAN, G. B.**  
Nutrient Enrichment of Chesapeake Bay and Its Impact on the Habitat of Striped Bass: A Speculative Hypothesis, W85-06409 1812 2L

**MACKINTOSH, E. E.**  
Soil Survey Interpretations from Water Retention Data: I. Development and Validation of a Water Retention Model, W85-03963 1808 2G

**MAIDYR, R. W.**  
Hydrostratigraphic Subdivisions and Fault Barriers of the Edwards Aquifer, South-Central Texas, U.S.A., W85-00008 1801 2F

**MACMILLAN, D. A.**  
Sludge Application to Land Compared with a Pasture and a Hayfield: Reduction of Biological Health Hazard Over Time, W85-03863 1808 5E

**MACNISH, R. D.**  
Stratified-Drift Aquifers in the Susquehanna River Basin, New York, W85-03896 1808 2F

**MACRAE, I. C.**  
Removal of Bacteria from Water by Adsorption to Magnetite, W85-02909 1806 5F

**MACVICAR, T. M.**  
Electronic Transducer for Continuous Water Level Monitoring, W85-03371 1807 7B

**MADDEN, M.**  
Oxygen Uptake Rates Associated with Biological Treatment of Pentachlorophenol Wastewater, W85-01161 1803 5D

**MADDOCK, T. III.**  
Identification of an Optimal Groundwater Management Strategy in a Contaminated Aquifer, W85-03141 1806 4B

**MADDOX, J. J.**  
Optimization of Biological Recycling of Plant Nutrients in Livestock Waste by Utilizing Waste Heat from Cooling Water, W85-06983 1812 5D

**MADEC, C.**  
Effect of High Chloride Ion Concentrations on the Quantitative Spectrophotometric Determination of Tribromamine in Aqueous Media (Influence des Ions Chlorure sur la Determination Quantitative de la Tribromamine en Milieu Aquatique par Spectrophotometrie d'Absorption Electromagnetique), W85-03547 1807 5A

**MADONI, P.**  
Ecological Characterization of Different Types of Watercourses by the Multivariate Analysis of Ciliated Protozoa Populations, W85-00628 1802 2H

**MADSEN, H. B.**  
Land Use Planning in Denmark: The Use of Soil Physical Data in Irrigation Planning, W85-01234 1803 3F

**MADSEN, J. D.**  
Hydraulic Stabilization of Earth Structures, W85-03419 1807 8D

**MAEDA, H.**  
Oxygen Consumption in the Bottom Water Related with the Production of Sulfides in the Bottom Sediments, W85-00139 1801 2K

**MAEDA, S.**  
Bacterial Mineralization of Organic Matter in Lake Sagami (in Japanese), W85-00529 1802 2H

**MAEDA, Y.**  
Preliminary Studies on Treatment of Chromium Tannery Waste Sludge by Anaerobic Digestion, W85-04251 1808 5D

MAEDA, Y.

## AUTHOR INDEX

**MAES, L.**

**MAES, L.**  
Changes in the Oxygen Balance of a Polluted Brook-Pond System During an Aeration Experiment (Veranderingen in de Zuurstofbalans van een Bevuilde Beek-Vijverwater Gedurende een Aeratie-Experiment),  
W85-04889 1809 5G

Changes of Organic and Inorganic Nitrogen in a Polluted Brook-Pond System During an Aeration Experiment (Veranderingen in de Organische en Anorganische Stikstof van een Bevuilde Beek-Vijverwater Gedurende een Aeratie-Experiment),  
W85-04890 1809 5G

**MAGARITZ, M.**  
Hydrogeochemistry of Continental Brackish Waters in the Southern Coastal Plain, Israel, W85-01095 1802 2K

**MAGDYCH, W. P.**  
Salinity Stresses Along a Complex River Continuum: Effects on Mayfly (Ephemeroptera) Distributions, W85-02819 1806 2H

**MAGETTE, W. L.**  
Saving the Chesapeake: Maryland's Agricultural Education Program, W85-05953 1811 5G

**MAGID, I. M. A.**  
Water Treatment for Rural Areas with Emphasis on Sudan, W85-03706 1807 5F

**MAGIER, J.**  
Hydraulic Conductivity and Water Retention of Clay Soils Containing Coarse Fragments, W85-02320 1805 2G

**MAGOMEDOV, A. K.**  
Effect of Sodium Naphthenate on Survival and Some Physiological-Biochemical Parameters of Some Fishes, W85-02280 1805 5C

**MAGOUN, A. D.**  
Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 4: Diel Periodicity of Benthic Macroinvertebrate Drift, W85-06995 1812 2A

Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 7: Management of Ecological Data in Large River Ecosystems, W85-06899 1812 6G

**MAGUIRE, B. P.**  
Henry's Law Constants for the Trihalomethanes: Effects of Water Composition and Temperature, W85-01124 1803 5F

**MAGUIRE, R. J.**  
Uptake and Accumulation of Inorganic Tin by a Freshwater Alga, *Ankistrodesmus falcatus*, W85-03598 1807 5C

**MAHADEVAN, T. N.**  
Some Observations on the Chemical Composition of Precipitation in an Industrial Area and Its Use in Air Quality Assessment, W85-02129 1804 5B

**MAHAJAN, S. P.**  
Biological Denitrification in a Fluidized Bed, W85-04660 1809 5D

Removal of Phenol Using Water Hyacinth in a Continuous Unit, W85-05449 1810 5D

**MAHALI, B. E.**  
Preliminary Observations on the Effects of Flooding and Desiccation upon the Net Photosynthetic Rates of High Intertidal Estuarine Sediments, W85-01594 1803 2L

**MAHANNAH, C. N.**  
Water Quality of Irrigation and Surface Return Flows from Flood-Irrigated Pasture and Alfalfa Hay, W85-03856 1808 5B

**MAHER, W. A.**  
Aromatic Hydrocarbons in Waters of Port Phillip Bay and the Yarra River Estuary, W85-01644 1804 5B

**MAHESHWARI, J. K.**  
Contribution to the Wetland Flora of Sitapur District, Uttar Pradesh, W85-03830 1808 2H

**MAHEY, R. K.**  
Numerical Analysis of Irrigation Treatments of Barley with Respect to Drainage Losses and Crop Response, W85-06091 1811 3F

**MAHIEU, R.**  
'Het Goorken' and 'de Lokkerse Dammen' (Arendonk, Belgium): I. Introduction and Phytosociological Survey (Het Goorken en de Lokkerse Dammen (Arendonk, Belgien); I. Inleiding en Fytosociologische Schets), W85-05072 1810 2L

**MAHIN, D. A.**  
Model-Derived Estimates of Groundwater Mean Ages, Recharge Rates, Effective Porosities and Storage in a Limestone Aquifer, W85-06047 1811 2F

**MAHMOOD, K. A.**  
Toxins from Freshwater Cyanobacteria, W85-06779 1812 5A

**MAHOODIAN-SHOOSHTARI, M.**  
Unsaturated Soil Hydraulic Properties from Redistribution of Injected Water, W85-03386 1807 2G

**MAHRT, L.**  
Influence of Atmospheric Stability on Potential Evaporation, W85-01044 1802 2D

**MAIANU, A.**  
Computerized Scheme for Chemical Classification of Natural Waters and Soil Extracts, W85-03970 1808 2K

Salt Accumulation in the Rivers of North Dakota, W85-06718 1812 5B

**MAIDMENT, D. R.**  
Microcomputer Programs for Designing Water Systems, W85-01903 1804 8A

Transfer Function Models of Daily Urban Water Use, W85-06496 1812 6D

**MAIER, W.**  
Pilot Scale Studies on Enhanced Biological Phosphorus Removal in an Activated Sludge Treatment Plant with Nitrification and Predenitrification (Untersuchungen über die biologische Phosphor-Elimination in einer halbtechnischen Versuchsanlage mit weitgehender Nitrifikation und vorgeschalteter Denitrifikation), W85-05042 1810 5D

**MAIOLIE, M.**  
Colorado Cooperative Fishery Research Unit Studies of Twin Lakes, Colorado: 1980 Report of Findings, W85-04937 1809 5C

**MAISON, B.**  
Remote Monitoring and Optimisation of Pumping at the Syndicat des Eaux de La Haute-Loue (Telesurveillance et Optimisation du Pompage du Syndicat des Eaux de La Haute-Loue), W85-02005 1804 5F

**MAITA, Y.**  
Seasonal Variation of Dissolved Organic Matter in Funka Bay, W85-06441 1812 2L

**MAJCHEREK, H.**  
Modeling of Flow Velocity Using Weirs, W85-04396 1808 8B

Submerged Discharge Relations of Logarithmic Weirs, W85-00733 1802 8B

Submerged Weirs, W85-04402 1808 8A

**MAJEWSKI, H. S.**  
Osmoregulatory and Hematological Responses of Rainbow Trout (*Salmo gairdneri*) to Extended Environmental Acidification, W85-03604 1807 5C

**MAKANSI, J.**  
Acid Rain: New SO<sub>2</sub> Controls Inevitable, W85-00210 1801 5C

Legislators Pause; Engineers Refine Control Technologies, W85-00941 1802 6E

**MAKAREWICZ, J. C.**  
Growth Response of *Anacystis nidulans* to Sodium and Phosphate Availability, W85-05866 1811 5C

**MAKAROV, V. I.**  
Prospects of Improving Methods of Constructing Frozen-Type Earth Dams, W85-00457 1801 8D

**MAKBOUL, H. E.**  
Interactions of the Molluscicide 'Bayluscide' with Development of Dinitrogen Fixers and Their N2-ase and Respiratory Activities in Water, W85-04058 1808 5C

**MAKEIG, K. S.**  
Natural Buffers for Sludge Leachate Stabilization, W85-00322 1801 5E

Natural Buffers for Sludge Leachate Stabilization, W85-05383 1810 5E

**MAKELA, M.**  
Municipal Wastewater Treatment and Its Control in Finland, W85-02393 1805 5D

**MAKHNIBORODA, E. I.**  
Evaluation of the Effect of Lake Balkhash Level and Ili River Runoff on Stock and Catches of Commercial Fish Species, W85-04127 1808 2H

**MAKI, A. W.**  
Impact of Detergent Phosphorus Bans on Receiving Water Quality, W85-00558 1802 5C

**MAKI, J. S.**  
Retrieval of Material from the Surface Microlayer with Screen and Plate Samplers and its Implications for Partitioning of Material within the Microlayer, W85-04895 1809 5A

Stratification of Microorganisms and Nutrients in the Surface Microlayer of Small Freshwater Ponds, W85-00407 1801 2H

Survival and Detection of *Bacteroides* spp., Prospective Indicator Bacteria, W85-04262 1808 5A

**MAKITA, T.**  
Thermodynamic Properties of R13 (CClF<sub>3</sub>), R23 (CHClF<sub>2</sub>), R152a (C<sub>2</sub>H<sub>4</sub>F<sub>2</sub>) and Propane Hydrates for Desalination of Sea Water, W85-03890 1808 3A

## AUTHOR INDEX

<b>MALAIYANDI, M.</b>	Critical Oxygen Concentration of Finnish Lakes, W85-05064	1810 2H	<b>MALZER, G. L.</b>
Recovery of Hexachlorocyclohexane Isomers in Fortified Water Samples, W85-06601		1812 5A	Functional Aspects of a Lake Outlet Versus a Springfed Stream Ecosystem, W85-05680
<b>MALAKHANOV, V. V.</b>			1810 2H
Temporal Variation of the Characteristics of Sands in Hydraulic-Fill Structures of the Riga Hydroelectric Station, W85-05023		1810 8D	<b>MALNOU, D.</b>
<b>MALANCHUK, J. L.</b>			Biological Phosphorus Removal: Study of the Main Parameters, W85-03645
Integrated Use of Physical and Mathematical Models to Evaluate Ecological Effects, W85-05699		1810 5C	1807 5D
<b>MALANEY, G. W.</b>			<b>MALONE, P. G.</b>
Evaluation of Carbamate Toxicity: Acute Toxicity in a Culture of <i>Paramaecium</i> Multimicronucleatum Upon Exposure to Aldicarb, Carbaryl, and Mexacarbate as Measured by Warburg Respirometry and Acute Plate Assay, W85-06168		1811 5C	Toxic Metal Removal from Electroplating Wastewater Using Silylated Silica Gel, W85-05579
<b>MALATSKOVSKI, F. S.</b>			1810 5D
Experience in Constructing Radial Wells in Fine Sands, W85-00447		1801 8D	<b>MALONE, R. F.</b>
<b>MALBERT, B.</b>			Mathematical Representation of Short Term Phosphorus Variations in a Non-Stratified Southern Lake, W85-06285
Local Water and Sewage System Planning, W85-05199		1810 5D	1812 2H
<b>MALE, G. R.</b>			<b>MALIZIA, A. A. JR.</b>
Renovation of a Major Reservoir, W85-00736		1802 8C	Effects of Temperature on the Locomotor Activity of the Bluegill Sunfish, <i>Lepomis macrochirus</i> , W85-06487
<b>MALE, J. W.</b>			1812 5C
Tradeoffs in Water Quality Management, W85-03063		1806 5D	<b>MALLE, K.-G.</b>
<b>MALECKI, R. A.</b>			Significance of the 129 Substance EEC-List for Water Quality Protection (Die Bedeutung der 129 Stoffe der EG-Liste fur den Gewasserschutz), W85-02754
Effects of Long-Term Artificial Flooding on a Northern Bottomland Hardwood Forest Community, W85-00291		1801 6G	1806 5G
<b>MALES, R. M.</b>			<b>MALLETT, V. N.</b>
Algorithm For Mixing Problems in Water Systems, W85-05780		1810 6C	Partitioning and Short-Term Persistence of Fenitrothion in New Brunswick (Canada) Headwater Streams, W85-02190
<b>MALHOTRA, V. M.</b>			1805 5B
Measurement of Concrete Permeability, W85-01714		1804 8F	Simultaneous GLC Determination of Fenitrothion, Aminocarb and Their Corresponding Hydrolysis Products in Water, W85-06762
<b>MALICKY, G.</b>			1812 5A
Biomass and Phosphorus-Content of the Macrophytes of the NE-Bay of the Lunzer Untersee (Austria) in Relation to Nutrient-Rich Inflows and to the Sediment (Biomasse und Phosphorgehalt der Makrophyten in der NO-Bucht des Lunzer Untersees (Austria) in Abhangigkeit von nahrstoffreichen Zuflussen und vom Sediment), W85-02527		1805 2H	<b>MALLEVIALLE, J.</b>
<b>MALIK, D. S.</b>			Combination of Continuous Mode Liquid-Liquid Extraction with Coupled GC-MS for the Analysis of Pesticides in Water (Combinaison D'Une Cellule D'Extraction Liquide-Liquide en Continuité et D'Un Couplage CG-MS en Vue De L'Analyse Des Pesticides Dans Les Eaux), W85-02913
Effect of Water Stress at Three Growth Stages on the Yield and Water-Use Efficiency of Dwarf Wheat, W85-05933		1811 3F	1806 5A
<b>MALIK, U. A.</b>			<b>HOW SAFE ARE ORGANIC POLYMERS IN WATER TREATMENT,</b>
Small Hydro Progress in Malaysia, W85-06129		1811 6B	W85-00711
<b>MALIN, M. C.</b>			1802 5F
Sapping Processes and the Development of Theater-Headed Valley Networks on the Colorado Plateau, W85-05729		1810 2J	Potential Use of Enzymes as Catalysts in Drinking Water for the Oxidation of Taste Causing Substances, W85-02021
<b>MALIN, V.</b>			1804 5F
Changes in Ionic Distributions in Finnish Lake Water During the Period 1968-1983, W85-06296		1812 5C	<b>MALLEY, J. P. JR.</b>
Changes in Water Quality in Finnish Lakes 1965-1982, W85-06295		1812 5C	Chlorine Residual Monitoring in the Presence of N-Organic Compounds, W85-03618
			1807 5F
<b>MALLIN, M. A.</b>			<b>MALLIK, A. U.</b>
Plankton Community of an Acid Blackwater South Carolina Power Plant Impoundment, W85-01498		1803 6G	Ecological Effects of Heather Burning; I. Water Infiltration, Moisture Retention and Porosity of Surface Soil, W85-03739
<b>MALLORY, L. M.</b>			1807 2G
Impact of Coal-Coking Effluent on Sediment Microbial Communities: A Multivariate Approach, W85-00095		1801 5C	<b>MALLMQVIST, B.</b>
<b>MALYSHEV, M. P.</b>			Animal Community Structure as a Function of Stream Size, W85-00426
Study of the Seepage and Piping Stability of Dolomite Soil and Evaluation of its Suitability for a Dam Core on a Rock Foundation, W85-03579		1807 8D	1801 8A
<b>MALYSHEV, N. A.</b>			<b>MALYSHEV, N. A.</b>
Earth Dam of the Al-Hadithah Hydropower Development on the Euphrates River, W85-00505		1801 8D	Earth Dam of the Al-Hadithah Hydropower Development on the Euphrates River, W85-00505
<b>MALZER, G. L.</b>			1812 3C
Saline Cooling Tower Water for Irrigation in Minnesota: I. Crop and Soil Effects, W85-06615			Saline Cooling Tower Water for Irrigation in Minnesota: II. Drainage Water Composition,

## AUTHOR INDEX

**MALZER, G. L.**

Leaching Fraction, and Effect on Aquifer Quality, W85-06616 1812 3C

**MAMAEV, O. V.**  
Use of Groundwater Isotopic Parameters for Classifying Structural and Hydrogeological Stages of the Platform Area of Dagestan, W85-04094 1808 2F

**MAMARBACHI, G.**  
Distribution of Fenitrothion Residues in Brook Trout (*Salvelinus fontinalis*) and Lake Trout (*Salvelinus namaycush*) Tissues Following Aerial Applications to Lac Ste-Anne, Quebec, W85-02784 1806 5C

**MAMET, J.**  
Impact Loads of Ships on Structures (Problemes des chocs de bateaux sur les ouvrages), W85-00379 1801 8C

**MAMRADZE, G. P.**  
Determination of Water Pressure in Pressure Tunnels and Conduits under a Seismic Load, W85-00475 1801 8B

**MAN'KOVA, T. S.**  
Iron Migration in Sandy Podzolic Soils under Increasing Hydromorphism Produced by a Reservoir, W85-05909 1811 6G

**MAN'KOVSKAYA, L. I.**  
Energy Reserve in Organic Matter and in Some Reduced Mineral Compounds of the Black Sea (Zapas Energii v Organicheskem Veshchestve i Nekotorykh Vostanovlyemykh Mineral'nykh Soedineniyakh vod Chernogo Morya), W85-06456 1812 2L

**MANABE, S.**  
Effect of Soil Moisture on the Short-Term Climate and Hydrology Change - A Numerical Experiment, W85-01335 1803 8G

**MANCE, G.**  
Application of the European Communities Directive on Dangerous Substances to List II Substances in the U. K., W85-01399 1803 5G

Derivation of Environmental Quality Objectives and Standards for Black and Grey List Substances, W85-02227 1805 5G

Quantities of Some Dangerous Substances Discharged to British Coastal Waters, W85-02759 1806 5B

**MANDAL, B. H.**  
Effects of Feeding Rates on Production of Common Carp and Water Quality in Paddy-cum-Fish Culture, W85-02236 1805 5B

**MANDAL, B. N.**  
Most Severe Rainstorm of India - a Brief Appraisal, W85-01139 1803 2B

Rainfall Distribution Over India During the Monsoon Months in the Absence of Depressions and Cyclonic Storms, W85-05081 1810 2B

**MANEM, J.**  
Potential Use of Enzymes as Catalysts in Drinking Water for the Oxidation of Taste Causing Substances, W85-02021 1804 5F

**MANEY, R. F.**  
Appearance of PCBs in the Surficial Sediments of Casco Bay, Maine, W85-04382 1808 5B

**MANGANI, F.**  
Sample Enrichment for Gas Chromatographic Mass Spectrometric Analysis of Polynuclear Aromatic Hydrocarbons in Water and in Organic Mixtures, W85-03411 1807 5A

**MANGEL'DIN, R. S.**  
Use of Uranium-Series Isotopes for Studying Thermal Waters of the Frunze Region, W85-05150 1810 2F

**MANIA, J.**  
Fresh Water-Salt Water Interface in French Flanders (L'Interface eau douce-eau salée en Flandres francaises), W85-06447 1812 2L

**MANICKAN, T. S.**  
Comparison of Activated Sludge Response to Quantitative, Hydraulic and Combined Shock for the Same Increases in Mass Loading, W85-05278 1810 5D

**MANKER, D. C.**  
Investigation of Two Possible Modes of Action of the Inert Dye Aquashade on Hydrilla, W85-02122 1804 4A

**MANLY, B. F. J.**  
Note on Selecting an Optimum Raingauge Subset, W85-05541 1810 2B

**MANN, C. K.**  
Determination of Phenols in Water Using Raman Spectroscopy, W85-02114 1804 5A

**MANN, K. H.**  
Ecology of Coastal Waters: A Systems Approach, W85-06945 1812 2L

**MANN, M. D.**  
Gasifier Wastewater Treatment: Phase I Cooling Tower Assessment, W85-04879 1809 5D

**MANN, R.**  
Accumulation of Sediment-Associated Viruses in Shellfish, W85-00099 1801 5B

**MANN, R. H. K.**  
Effects of Impoundment upon Fish Populations in Afferent Streams at Cow Green Reservoir, W85-04385 1808 6G

**MANN, T.**  
Two-Step Nitrification of Ammonia-Rich Waste Water, W85-03647 1807 5D

**MANN, W. B. IV.**  
Estimated Use of Water in the United States in 1980, W85-00042 1801 6D

**MANNERBACH, R. A.**  
Munitions Manufacturing Wastewater Treatment: A Grass-Roots Facility Case History, W85-05248 1810 5D

**MANNER, B. M.**  
Retrospective Assessment of a Potential Cadmium Hazard, W85-06448 1812 5C

**MANNING, D. L.**  
Determination of Munitions Components in Water by Resin Adsorption and High-Performance Liquid Chromatography-Electrochemical Detection, W85-03410 1807 5A

**MANNY, B. A.**  
Distribution of Eurasian Watermilfoil, *Myriophyllum spicatum*, in the St. Clair-Detroit River System in 1978, W85-02893 1806 2H

Potential Impacts of Water Diversions on Fishery Resources in the Great Lakes, W85-02899 1806 6G

**MANOS, C. G.**  
Identification of Asbestos and Glass Fibers in Municipal Sewage Sludges, W85-05008 1810 5A

**MANSELL, R. S.**  
Simplified Method for Approximating Subsurface Travel Times for Solutes in Watersheds, W85-05344 1810 2A

**MANSER, R. J.**  
Investigation of Aldicarb in Ground Water in Selected Areas of the Central Sand Plain of Wisconsin, W85-00324 1801 5B

**MANSON, K.**  
River Bure, United Kingdom: Patterns of Change in Chemistry and Phytoplankton in a Slow-Flowing Fertile River, W85-05676 1810 2E

**MANSOUR, M.**  
Photolysis of Aromatic Compounds in Water in the Presence of Hydrogen Peroxide, W85-04349 1808 5B

**MANTERE, R.**  
Quantity and Composition of Phytoplankton, Particularly Chlorophyta, in Lakes of Different Trophic Levels, W85-05065 1810 2H

**MANTILACCI, L.**  
Hydrobiological Research on Two Small Brackish Lakes in Portonovo; I: Lake Profondo (Ricerche Idrobiologiche Su Due Laghetti Di Portonovo; Parte I: Lago Profondo), W85-02499 1805 5C

Hydrobiological Research on Two Small Brackish Lakes in Portonovo; II: Lake Grande (Ricerche Idrobiologiche Su Due Laghetti Di Portonovo; Parte II: Lago Grande), W85-02500 1805 5C

**MANTOURA, R. F. C.**  
Physico-Chemical Speciation of Polycyclic Aromatic Hydrocarbons (PAH) in Aquatic Systems, W85-03282 1807 5B

Preliminary Model of the Dispersal and Biological Effect of Toxins in the Tamar Estuary, England, W85-00266 1801 5B

**MANUEL-FALER, C. Y.**  
In Situ Nitrogen Enrichment Experiments in Two Idaho (U.S.A.) Streams, W85-06284 1812 5C

**MANZIG, J. G. W.**  
Legal Aspects of Acidic Precipitation, W85-01669 1804 6E

**MAOS, J. O.**  
Water Resource Planning and Development in the Northern Jordan Valley, W85-03701 1807 6B

**MAR, B. W.**  
Guide for Assessing Water-Quality Impacts of Highway Operation and Maintenance, W85-06068 1811 5C

**MARA, D. D.**  
Versatile Computer-Controlled Fermentor for the Simulation of Wastewater Treatment Systems, W85-06837 1812 5D

**MARAFANTE, E.**  
Heavy Metal Uptake and Intracellular Binding in Isolated Gill Preparations of *Mytilus galloprovincialis* L., W85-04358 1808 5C

AUTHOR INDEX

MARSH, P.

**MARANI, A.**  
Conceptual Model of Unit-Mass Response Function for Nonpoint Source Pollutant Runoff, W85-03872 1811 5B

**MARANO, R. S.**  
Use of Bonded Phase Silica Sorbents for the Sampling of Priority Pollutants in Wastewater, W85-02809 1806 5A

**MARBOUTY, D.**  
Physical Properties of Snow (Les Proprietes Physiques de la Neige), W85-05543 1810 2C

**MARCELLE, C.**  
Relative Importance of Dietary and Environmental Sources of Lindane in Fish, W85-02779 1806 5B

**MARCH, P. A.**  
Targeted Chlorination is Viable and Environmentally Acceptable, W85-05916 1811 5F

**MARCHAND, M.**  
Hydrocarbons and Halogenated Hydrocarbons in Coastal Waters of the English Channel and the North Sea, W85-05862 1811 5A

**MARCHAND, P. J.**  
Effect of Pond Storage on the Hydrologic and Nutrient Output of a Forested Watershed in Northern Vermont, W85-06012 1802 5A

**MARCHANT, R.**  
Distribution of Benthic Invertebrates' Along a Disturbed Section of the La Trobe River, Victoria: an Analysis Based on Numerical Classification, W85-01165 1803 2

**MARCHULENENE, D. P.**  
Dependence of the Radionuclide Accumulation Level in Aquatic Plants on Ecological Factors (Zavisimost' Urovnya Nakopleniya Padionuklidov v Vodnykh Rasteniyakh ot Ekologicheskikh Faktorov), W85-06484 1812 5B

**MARDON, D. M.**  
Convenient Apparatus for Microbiological Sampling of River Waters, W85-04308 1808 7B

**MARENGO, G.**  
Sedimentation Rates in a Swiss-Italian Lake Measured with Sediment Traps, W85-02100 1804 2J

**MARES, A.**  
Does Settling Seston Release Soluble Reactive Phosphorus in the Hypolimnion of Lakes, W85-07071 1812 2H

**MARESCA, G. P.**  
Asbestos in Lake and Reservoir Waters of Staten Island, New York: Source, Concentration, Mineralogy, and Size Distribution, W85-06160 1811 5B

**MARGOLINA, G. L.**  
Investigation of the Space-Time Variability of Physical, Chemical, and Biological Indices in Reservoirs for the Purpose of Their Regionalization with Special Reference to the Ivankovo Reservoir, W85-04104 1808 2H

**MARGREY, S. L.**  
Avoidance Responses of Estuarine Fish Exposed to Heated-Declorinated Power Plant Effluents, W85-01127 1803 5C

**MARIEN, J. L.**  
Controllability Conditions for Reservoir Flood Control Systems with Applications, W85-03549 1807 4A

**MARINELLI, G.**  
Application of a Simplified Method for Recovery of *Yersinia enterocolitica* from Surface Waters, W85-07135 1812 5A

**MARINI, M.**  
Effects of Copper Pollution on *Ictalurus nebulosus* (Effetti Dell'Inquinamento Da Rame Su *Ictalurus nebulosus*), W85-02498 1805 5C

**MARINO, M. A.**  
Border Irrigation Model Selection, W85-06092 1811 3F

Comparison and Selection of Furrow Irrigation Models, W85-03484 1807 3F

Infiltration from Trickle Irrigation Source, W85-03816 1808 2G

Parameter Identification of Time-Varying Noisy Difference Equations for Real-Time Urban Runoff Forecasting, W85-01167 1803 2E

Sensitivity and Application of Difference Equation Models to Real-Time Urban Runoff Forecasting, W85-01168 1803 2E

Transition Zone Width in Ground Water on Ocean Atolls, W85-06041 1811 2F

Two-Stage Urban Runoff Forecast Model, W85-03065 1806 2E

**MARINUCCI, A. C.**  
Trophic Importance of *Spartina alterniflora* Production and Decomposition to the Marsh-Estuarine Ecosystem, W85-00117 1801 2L

**MARIS, P. J.**  
Recirculation of Leachate as a Landfill Management Option: Benefits and Operational Problems, W85-03768 1808 5G

**MARKEE, T. P.**  
Acute and Chronic Toxicities of Arsenic(III) to Fathead Minnows, Flagfish, Daphnids, and an Amphipod, W85-02423 1805 5C

**MARKEL, R.**  
Sources of Nitrate in Ground Water in a Sewered Housing Development, Central Long Island, New York, W85-01529 1803 5B

**MARKEVICH, V. F.**  
Operating Conditions of Earth Dams on Undermined Territories, W85-00443 1801 8D

**MARKING, L. L.**  
Factors Affecting the Efficiency of Clinoptilolite for Removing Ammonia from Water, W85-01583 1803 5D

**MARKKULA, I.**  
Moisture Conditions in Hummocks and Hollows in Virgin and Drain Sites on the Raised Bog Laaviosuo, Southern Finland, W85-05873 1811 2H

**MARKO-VARGA, G.**  
Ion Chromatographic Determination of Nitrate and Sulfate in Natural Waters Containing Humic Substances, W85-02832 1806 2K

**MARKOULATOS, P.**  
Seasonal Distribution of Enteroviruses and Adenoviruses in Domestic Sewage, W85-05742 1810 5B

**MARKOVA, N. E.**  
Fundamental Differential Equation of Flow of a Fluid with a Variable Mass in the Case of Bilateral Water Diversion, W85-04428 1809 2E

**MARKS, D. H.**  
Irrigated Agricultural Expansion Planning in Developing Countries: Income Redistribution Objective, W85-02143 1804 3F

Irrigated Agricultural Expansion Planning in Developing Countries: Investment Scheduling Incorporating Drainage Water Reuse, W85-02142 1804 3F

Irrigated Agricultural Expansion Planning in Developing Countries: Resilient System Design, W85-02144 1804 6A

**MARKS, V.**  
Role of Immunoassay in the Analysis of Micro-contaminants in Water Samples, W85-05811 1810 5A

**MARLETTA, G. P.**  
Determination of Cadmium and Lead in Natural Waters, W85-03278 1807 5A

**MARLEY, N. A.**  
Determination of Phenols in Water Using Raman Spectroscopy, W85-02114 1804 5A

**MARMOREK, D. R.**  
Changes in the Temporal Behavior and Size Structure of Plankton Systems in Acid Lakes, W85-04199 1808 5C

**MARMOUSH, Y. R.**  
Pilot Experiments on Thermal Bar in Lock Exchange Flow, W85-02443 1805 8B

**MAROZAS, M.**  
Nitrogen and Phosphorus Concentrations within North Inlet, South Carolina - Speculation as to Sources and Sinks, W85-02657 1805 2L

**MARRON, D. C.**  
Contrast in Stream-Channel Response to Major Storms in Two Mountainous Areas of California, W85-04836 1809 2J

**MARSALEK, J.**  
Design Storms for Urban Drainage Design, W85-04049 1808 2B

Temporal Distribution of Design Storm Rainfall, W85-01688 1804 2B

Urban Runoff Peak Frequency Curves, W85-06642 1812 2E

**MARSH, A. R. W.**  
Acidity of Rain in Europe, W85-00245 1801 2K

**MARSH, B. E.**  
Instrumentation Control and Automation for Ecup Treatment Works, W85-02131 1804 5F

**MARSH, B. J.**  
Gears for Pumped-Storage Units, W85-02676 1805 8C

**MARSH, G. M.**  
Critical Review of Epidemiologic Studies Related to Ingested Asbestos, W85-02704 1806 5C

**MARSH, P.**  
Basal Ice in High Arctic Snowpacks, W85-00237 1801 2C

## AUTHOR INDEX

**MARSH, P.**

Wetting Front Advance and Freezing of Meltwater Within a Snow Cover; 1. Observations in the Canadian Arctic, W85-03991 1808 2C

Wetting Front Advance and Freezing of Meltwater Within a Snow Cover; 2. A Simulation Model, W85-03992 1808 2C

**MARSHALL, E. J. P.**  
Ecology of a Land Drainage Channel - II; Biology, Chemistry and Submerged Weed Control, W85-00555 1802 4A

**MARSHALL, H. G.**  
Algal Dynamics and Nitrogen and Phosphorus Cycling in a Cypress Stand in the Seasonally Flooded Great Dismal Swamp, W85-00983 1802 2L

**MARSILI-LIBELLI, S.**  
Activated Sludge Process Control Using Dissolved Oxygen Measurements, W85-01433 1803 5D

**MARSMAN, P.**  
Impact of Chlorine, Chlorine dioxide and Ozone on the Oxidation of NTA during Drinking Water Treatment, W85-02965 1806 5F

**MARSTON, K. R.**  
Five-Day Biochemical Oxygen Demand Removal from Rendering Plant Wastewater, W85-05255 1810 5D

**MARTEL, C. J.**  
Heating Enclosed Wastewater Treatment Facilities with Heat Pumps, W85-04924 1809 6A

**MARTEN, G. G.**  
Radiotracer Estimation of Microbial Biomass in Lake Sediment, W85-04448 1809 2H

**MARTENS, C. S.**  
Biogeochemical Cycling in an Organic-Rich Coastal Marine Basin; 4. An Organic Carbon Budget for Sediments Dominated by Sulfate Reduction and Methanogenesis, W85-03211 1806 2L

Radon-222 Tracing of Sediment-Water Chemical Transport in an Estuarine Sediment, W85-01331 1803 2L

**MARTENSON, I. V.**  
Problems of Reliability of Mechanical Equipment of Hydraulic Structures, W85-00434 1801 8C

**MARTENSON, V. YA.**  
Some Trends in the Development of Gate Construction Abroad, W85-00499 1801 8A

**MARTI, L. R.**  
Screening for Organic Contamination of Groundwater: Ethylene Dibromide in Georgia Irrigation Wells, W85-03669 1807 5A

**MARTIN, A.**  
Acid Gases and Acid in Rain Monitored for over 5 Years in Rural East-Central England, W85-03290 1807 5B

Estimated Washout Coefficients for Sulphur Dioxide, Nitric Oxide, Nitrogen Dioxide and Ozone, W85-03296 1807 2K

Short Study of the Influence of a Valley on the Composition of Rainwater, W85-00238 1801 5B

**MARTIN, C. W.**  
Influence of Storm Characteristics on Sulfate in Precipitation, W85-04010 1808 2K

Potential for Acidification of Six Remote Ponds in the White Mountains of New Hampshire, W85-01834 1804 5B

**MARTIN, D.**  
Bacterial Removal of Mercury from Sewage, W85-04114 1808 5D

Balsam Meadow Hydro Project Beats Time and Holds Budget, W85-06122 1811 8A

Guatemalan Gremlins Wreak Havoc Underground, W85-06121 1811 8A

**MARTIN, D. B.**  
Arsenic, Cadmium, Lead, Mercury, and Selenium in Sediments of Riverine and Pothole Wetlands of the North Central United States, W85-05472 1810 5A

Effect of Suspended Bentonite Clay on the Acute Toxicity of Glyphosate to *Daphnia pulex* and *Lemna minor*, W85-02419 1805 5C

**MARTIN, D. C.**  
Remedial Measures for Debris Flows at the Agassiz Mountain Institution, British Columbia, W85-03426 1807 2J

**MARTIN, D. F.**  
Dehalogenation of Three Chlorinated Hydrocarbons: Amine-Assisted Versus Metal-Chelate Assisted, W85-02121 1804 5F

Investigation of Two Possible Modes of Action of the Inert Dye Aquashade on *Hydrilla*, W85-02122 1804 4A

**MARTIN, D. L.**  
Irrigation System Capacities for Corn Production in Nebraska, W85-01187 1803 3F

Model and Production Function for Irrigation Management, W85-01508 1803 3F

**MARTIN, F. B.**  
Acid Rain: Ionic Correlations in the Eastern United States, 1980-1981, W85-01540 1803 5B

**MARTIN, F. D.**  
Effects of Freshwater Runoff on Nearshore Tropical Marine Fisheries, W85-00064 1801 5C

**MARTIN, G.**  
Ozonation Schemes of Organo Phosphorus Pesticides Application in Drinking Water Treatment, W85-06214 1812 5F

Removal of Heavy Metals from Waters by Means of Natural Zeolites, W85-04297 1808 5F

Use of Ozonation in Treatment of Sewage, W85-06213 1812 5D

**MARTIN, J.**  
U.S. Mussel Watch: 1977-1978 Results on Trace Metals and Radionuclides, W85-00669 1802 5B

**MARTIN, J. M.**  
Comparative Study of Mercury Contamination in the Tagus Estuary (Portugal) and Major French Estuaries (Gironde, Loire, Rhone), W85-06854 1812 5B

**MARTIN, L.**  
Records of Flooding Periods in a River Mouth. Example of the Rio Paraiba do Sul (Brazil).

Paleoclimatic Implications (Enregistrement des Periodes de Fortes et Faibles Energies à l'embouchure d'un fleuve. Le cas du Rio Paraiba do Sul (Brésil). Implications Climatiques), W85-03810 1808 2E

**MARTIN, M.**  
California State Mussel Watch, 1981-1983, Biennial Report, W85-06333 1812 5C

Petrowatch: Petroleum Hydrocarbons, Synthetic Organic Compounds, and Heavy Metals in Mussels from the Monterey Bay Area of Central California, W85-02326 1805 5B

Relationships between Physiological Stress and Trace Toxic Substances in the Bay Mussel, *Mytilus edulis*, from San Francisco Bay, California, W85-01350 1803 5C

**MARTIN, P. G.**  
Selective Effects of Phytoplankton Entrainment at the Surry Power Plant, James River, Virginia, W85-00987 1802 5C

**MARTIN, R.**  
Isolation of Legionella Species from Drinking Water, W85-02941 1806 5B

**MARTIN, R. W.**  
Sewage Pump Station Design for Barrow, Alaska, W85-04926 1809 8C

**MARTIN, W. J.**  
Economic Comparison of Composting and Dual Utilization, W85-02300 1805 5E

**MARTINCIC, A.**  
Applicability of Some Numerical Methods and the Evaluation of Bryophyta Indicator Species for the Comparison of the Degree of Pollution Between Two Rivers, W85-02238 1805 5A

**MARTINCIC, D.**  
Bioaccumulation of Heavy Metals by Bivalves from Lim Fjord (North Adriatic Sea), W85-02471 1805 5B

**MARTINES, H. P.**  
Kinematic Structure of Flow in a Trapezoidal Channel, W85-04421 1809 8B

**MARTINEZ ALFARO, P. E.**  
Ground-Water Age Distribution in Madrid Basin, Spain, W85-00346 1801 2F

**MARTINEZ, J. P.**  
Comparative Study on *Salmonella* Isolation from Sewage-Contaminated Natural Waters, W85-01150 1803 5A

**MARTINEZ, R. P.**  
Applicability of the OECD Eutrophication Models to Spanish Reservoirs, W85-05637 1810 2H

**MARTINI, I. P.**  
Morphology and Recent Sediments of the Lower Anastomosing Reaches of the Attawapiskat River, James Bay, Ontario, Canada, W85-01734 1804 2J

**MARTINSON, H. A.**  
Channel Changes of Powder River Between Moorhead and Broadus, Montana, 1939-1978, W85-03910 1808 2J

**MARTNER, B.**  
Cloud Physics Studies in the SCPP, 1982-1983, W85-04214 1808 3B

## AUTHOR INDEX

<b>MARTNER, B. E.</b> Seeding Effects in Non-Convective Clouds of the SCPP, W85-04215	1808 3B	<b>MASKARINEC, M. P.</b> Determination of Munitions Components in Water by Resin Adsorption and High-Performance Liquid Chromatography-Electrochemical Detection, W85-03410	1807 5A
<b>MARTYNOVA, M. V.</b> Processes of Transformation of Nitrogen Compounds in Bottom Sediments of Lakes and Reservoirs, W85-04153	1808 2J	<b>MASKE, S. J.</b> Water Hyacinth Canopy and Pan Evaporation, W85-02128	1804 4A
<b>MARUOKA, S.</b> Mutagenic Activity in Organic Concentrate from Nishitakase River Water in Kyoto City, and its Fractions Separated by Using Liquid-Liquid Fractionation and Thin Layer Chromatography, W85-04980	1810 5A	<b>MASLIA, M. L.</b> Comparison of Aquifer Characteristics Derived from Local and Regional Aquifer Tests, W85-06819	1812 2F
<b>MARVAN, I. J.</b> Treatment of Coke Plant Wastewater in the Coupled Predenitrification-Nitrification Fluidized Bed Process, W85-05272	1810 5D	<b>MASLOV, A. B.</b> Characteristics of the Drag on Baffle Blocks, W85-05988	1811 8B
<b>MARVAN, P.</b> Possibility of Treatment of Wastewater from Artificial Leather Production with the Help of Algae (Möglichkeiten der Nachreinigung von Abwassern aus der Kunstlederproduktion mit Hilfe von Algen), W85-06263	1812 5D	<b>MASON, A. Z.</b> Cellular Responses of Molluscan Tissues to Environmental Metals, W85-05883	1811 5C
<b>MARWITZ, J.</b> Winter Orographic Storms over the Sierra, Part II, The Precipitation Process, W85-04216	1808 3B	<b>MASON, C. F.</b> Macro-Invertebrate Populations and Production on a Salt-Marsh in East England Dominated by Spartina anglica, W85-05703	1810 2L
<b>MARWITZ, J. D.</b> Cloud Physics Studies in the SCPP, 1982-1983, W85-04214	1808 3B	<b>MASON, P. J.</b> Erosion of Plunge Pools Downstream of Dams Due to the Action of Free-Trajectory Jets, W85-01517	1803 8B
<b>MARX, D. B.</b> Solar Earth-Water Distillation for Wet Sand, W85-06073	1811 2G	<b>MASON, P. J.</b> Free Jet Scour Below Dams and Flip Buckets, W85-05781	1810 8B
<b>MARX, H.</b> Utilization of Pit Water at the Janschwalde Super Power Station as a Means of Rational Water Use (Grubenwassereinsatz im Grosskraftwerk Janschwalde als Massnahme der rationalen Wasserverwendung), W85-03470	1807 5D	<b>MASON, R. J.</b> Apples and Oranges: Toward a Critique of Public Participation in Great Lakes Decisions, W85-04573	1809 6A
<b>MARXSEN, J.</b> New Method for the Investigation of Bacterial Occurrence in Groundwater-Bearing Sandy Sediments (Ein neues Verfahren zur Untersuchung der bakteriellen Besiedlung grundwasser-fuerender sandiger Sedimente), W85-00768	1802 5A	<b>MASS, E. V.</b> Minimizing Salt in Drain Water by Irrigation Management - Arizona Field Studies with Citrus, W85-03481	1807 3F
<b>MARZOLF, G. R.</b> Patterns of Diel Oxygen Change in Ponds of Tropical India, W85-05654	1810 2H	<b>MASSAM, B. H.</b> Central Arizona Water Control Study: A Comparison of Alternate Plans Using Concordance Analysis and Multi-Dimension Scaling, W85-02974	1806 6B
Response of Bacteria Isolated from a Pristine Prairie Stream to Concentration and Source of Soluble Organic Carbon, W85-04266	1808 2K	<b>MASSCHELEIN, W. J.</b> Experience with Chlorine Dioxide in Brussels, Part 3: Operational Case Studies, W85-05479	1810 5F
<b>MASAKI, Y.</b> High-BOD Loading Treatment Using Large-Scale Deep Aeration Tanks, W85-02972	1806 5D	<b>MASSEY, B. C.</b> Conveyance Characteristics of the Nueces River, Cotulla to Simmons, Texas, W85-00033	1801 4A
<b>MASCINI, M.</b> Ion Selective Electrodes for Measurements in Fresh Waters, W85-02316	1805 7B	<b>MASSEY, D. T.</b> Exporting Colorado Water in Coal Slurry Pipelines, W85-06032	1811 6E
<b>MASHAURI, A. D.</b> Removal of Sediment Particles by Vortex Basin, W85-02391	1805 8B	<b>MASSON, J. M.</b> Statistical Representation of the Alternation of Dry and Rainy Spells Using Rainfall Series. Applications at Montpellier-Bel Air (1920-1971) and Paris-Montsouris (1949-1978) (Representation Statistique des Alternances Pluie-Non Pluie	
<b>MASHIHDY, A. S.</b> Heavy Metals Extractable from a Calcareous Soil Treated with Sewage Sludge, W85-01318	1803 5E	a Partir des Series Pluviographiques Applications a Montpellier-Bell Air (1920-1971) et Paris-Montsouris (1949-1978)), W85-00394	1801 2B
		<b>MASSOUH, F.</b> Study of a Water-Hammer Protection System in Line (Etude d'un Systeme Anti-Belier en Ligne), W85-03588	1807 8A
		<b>MASTYNSKI, J.</b> Fish Biomass of Drained Small Reservoirs, W85-03070	1806 2H
		<b>MATALAS, N. C.</b> Note on the Applicability of the James-Stein Estimator in Regional Hydrologic Studies, W85-03562	1807 2A
		<b>MATANGA, G. B.</b> Dual Formulation of Flow for Contaminant Transport Modeling; 1. Review of Theory and Accuracy Aspects, W85-05496	1810 5B
		<b>MATANGA, G. B.</b> Dual Formulation of Flow for Contaminant Transport Modeling; 2. The Borden Aquifer, W85-05497	1810 5B
		<b>MATARZIN, YU. M.</b> Hydrologic and Morphologic Regionalization of Flatland Valley-Type Reservoirs, W85-04105	1808 2H
		<b>RESERVOIRS AS SPECIAL HYDROLOGIC OBJECTS</b> , W85-04149	1808 2H
		<b>MATEJKA, Z.</b> Bead Cellulose Anion Exchangers for Ultra Pure Water, W85-03725	1807 5F
		<b>MATHER, E. L.</b> Toxicity of the Herbicides endothall and diquat to Benthic Crustacea, W85-02778	1806 5C
		<b>MATHERS, R. A. S.</b> Mortality of Early Life Stages of Largemouth Bass, Micropterus salmoides Due to Pentachlorophenol Exposure, W85-05014	1810 5C
		<b>MATHERS, R. T.</b> Rainfall Interception on a Small Forested Watershed within the Kawartha Lakes Region, W85-04578	1809 2I
		<b>MATHEW, K.</b> Removal of Nitrogen from Wastewater by Soil Percolation with Alternate Flooding and Drying, W85-07107	1812 5E
		<b>MATHIAS, J. A.</b> Gas Supersaturation as a Cause of Early Spring Mortality of Stocked Trout, W85-04844	1809 2H
		<b>MATHIEU, J.</b> Structure and Function of Ecosystems of the French Haut-Rhone (Structure et fonctionnement des écosystèmes du Haut-Rhône français), W85-01016	1802 2H
		<b>MATHIEU, P.</b> Distribution of Fenitrothion Residues in Brook Trout ( <i>Salvelinus fontinalis</i> ) and Lake Trout ( <i>Salvelinus namaycush</i> ) Tissues Following Aerial Applications to Lac Ste-Anne, Quebec, W85-02784	1806 5C
		<b>MATHIS, M. E.</b> Oklahoma's Reach to the Clouds, W85-04208	1808 3B
		<b>MATIS, J. H.</b> Water Environs of Okefenokee Swamp: An Application of Static Linear Environ Analysis, W85-01301	1803 2L

## AUTHOR INDEX

**MATIS, S.**

**MATIS, S.**  
Effects of Benthic Macroinvertebrates on the Exchange of Solutes Between Sediments and Freshwater,  
W85-06005 1811 2K

**MATISOFF, G.**  
137-Cs and 210-Pb Transport and Geochronologies in Urbanized Reservoirs with Rapidly Increasing Sedimentation Rates,  
W85-01099 1802 2J

Effects of Benthic Macroinvertebrates on the Exchange of Solutes Between Sediments and Freshwater,  
W85-06005 1811 2K

Flux of Reduced Chemical Constituents (Fe(2+), Mn(2+), NH4(+) and CH4) and Sediment Oxygen Demand in Lake Erie,  
W85-02087 1804 2H

Nature and Source of Arsenic in Northeastern Ohio Ground Water,  
W85-00325 1801 5B

**MATSON, J. V.**  
Enhance Cooling-Water Reuse with Sidestream Softening,  
W85-04469 1809 5F

**MATSUI, E.**  
Precipitation in the Central Amazon Basin: The Isotopic Composition of Rain and Atmospheric Moisture at Belém and Manaus,  
W85-02816 1806 2B

**MATSUI, K.**  
New Thin-Film Composite Reverse Osmosis Membranes and Spiral Wound Modules,  
W85-02553 1805 3A

**MATSUKI, N.**  
Reaction Kinetics of Sodium Bisulfite and Dissolved Oxygen in Seawater and Their Applications to Seawater Reverse Osmosis,  
W85-03973 1808 3A

**MATSUMOTO, G.**  
Vertical Distribution of Organic Constituents in an Antarctic Lake: Lake Vanda,  
W85-00418 1801 2H

**MATSUMOTO, T.**  
Studies on a Freshwater Red Tide in Lake Biwa - II. Relation between Occurrence of Red Tide and Environmental Factors (in Japanese),  
W85-00542 1802 2H

**MATSUNAGA, K.**  
Behavior of Organically-Bound Iron in Lake Ohnuma,  
W85-00932 1802 2H

Behavior of Organically-Bound Iron in Seawater of Estuaries,  
W85-01913 1804 2L

Depletion of Dissolved Oxygen in the Hypolimnion of Lake Kizaki from April to July in 1975,  
W85-00930 1802 2H

Estimation of Allochthonous and Autochthonous Organic Matter of the Fresh Sediments on the Basis of Ti Content,  
W85-00532 1802 2H

**MATSUNAMI, Y.**  
Interrelationship Between Some Environmental Factors of Riverbed Gravels and Pollution Index of Bottom Fauna in the River,  
W85-03509 1807 5C

**MATSUSHITA, H.**  
Studies on Performance of Desalination Plant by Reverse Osmosis System - II; Effects of Inhibition of Bacterial Growth with NaHSO3 on Performance of Plant (in Japanese),  
W85-02838 1806 3A

**MATTER, F.**  
Achieving Wastewater Compliance with Reduced Grant Support,  
W85-02582 1805 5D

**MATTER, W.**  
Movement, Transport, and Scour of Particulate Organic Matter and Aquatic Invertebrates Downstream from a Peaking Hydropower Project,  
W85-06973 1812 6G

**MATTHES, W. J. JR.**  
Water Resources Data, Iowa, Water Year 1982,  
W85-01931 1804 2E

**MATTHEWS, J. E.**  
Effects of Pollution on the Benthos of the Firth of Forth,  
W85-00800 1802 5C

**MATTHEWS, P. J.**  
Calculation of the Compliance of Discharges with Emission Standards,  
W85-01401 1803 5A

**MATTHEWS, P. R.**  
Dynamics of Jets in Two-Layer Stratified Fluids,  
W85-02450 1805 8B

**MATTHEWS, R. A.**  
Stressed Stream Ecosystem: Macroinvertebrate Community Integrity and Microbial Trophic Response,  
W85-00415 1801 5C

**MATTHEWS, W. J.**  
Depth Distribution of Striped Bass and Other Fish in Lake Texoma (Oklahoma-Texas) During Summer Stratification,  
W85-06408 1812 2H

Summer Mortality of Striped Bass in Reservoirs of the United States,  
W85-06405 1812 6G

**MATTHEY, G.**  
Space-Time Finite-Element Model for Two-Stream Unconfined Aquifer Systems,  
W85-02491 1805 2F

**MATTIESSEN, P.**  
Low Concentration Effects of Endosulfan Insecticide on Reproductive Behaviour in the Tropical Cichlid Fish Sarotherodon mossambicus,  
W85-02967 1806 5C

**MATTRAW, H. C. JR.**  
Accumulation of Trace Elements, Pesticides, and Polychlorinated Biphenyls in Sediment and the Clam Corbicula manilensis of the Apalachicola River, Florida,  
W85-02213 1805 5B

**MATTSSON, S.**  
Radioecological Studies of Activation Products Released from a Nuclear Power Plant into the Marine Environment,  
W85-04865 1809 5B

**MATUKHNO, YU. D.**  
System of Practices for Preventing Water by Agricultural Chemicals,  
W85-04619 1809 5G

**MATULICH, S. C.**  
Breeding Mallard (*Anas platyrhynchos*) Habitat Suitability Model,  
W85-01792 1804 6G

Pheasant (*Phasianus colchicus*) Habitat Suitability Model,  
W85-00062 1801 6G

**MATVEYEV, A. A.**  
Intercomparisons of Analytical Methodology and Laboratory Capabilities Between Soviet and American Laboratories - 1973 and 1977,  
W85-02887 1806 5A

Simulation Modeling as a Means of Studying Large Aquatic Ecosystems,  
W85-02884 1806 2A

**MATYUKHINA, A. I.**  
Cast Concretes with Frostproofing Additives in Underground Construction,  
W85-00463 1801 8F

Intense Methods of Winter Concreting of Underground Hydraulic Structures in the Far North,  
W85-00494 1801 8F

**MATZOW, D.**  
Use of Lime Slurry for Desalification of Running Water,  
W85-05679 1810 5G

**MAUERSBERGER, P.**  
Rates of Primary Production, Respiration and Grazing in Accordance with the Balances of Energy and Entropy,  
W85-01110 1802 2H

**MAUGHAN, O.**  
Biological and Economic Impact of Stream Alteration in the Virginia Piedmont,  
W85-06956 1812 6G

**MAUGHAN, O. E.**  
Evaluation of the Incremental Methodology for Recommending Instream Flows for Fishes,  
W85-01623 1803 6G

Generalized Model for Predicting Spawning Success of Fish in Reservoirs with Fluctuating Water Levels,  
W85-05878 1811 6G

Microhabitat Preferences of Benthic Fauna in a Woodland Stream,  
W85-00984 1802 2H

**MAUL, A.**  
Use of Historical Data for Estimating the Number of Samples Required for Monitoring Drinking Water,  
W85-06703 1812 5F

**MAULBETSCH, J. S.**  
Biofouling Control Through Targeted Chlorination,  
W85-03051 1806 5F

**MAUNAYE, M.**  
Removal of Heavy Metals from Waters by Means of Natural Zeolites,  
W85-04297 1808 5F

**MAUNEY, M.**  
Biological and Economic Impact of Stream Alteration in the Virginia Piedmont,  
W85-06956 1812 6G

**MAUSBACH, M. J.**  
Hydraulic Properties of Some Soils with Parathitic Contacts,  
W85-03965 1808 2G

**MAUSER, M. W.**  
Operation and Maintenance Considerations for the Design of Arctic Water Systems,  
W85-04923 1809 6A

**MAVINIC, D. S.**  
Aerobic Sludge Digestion with pH Control - Preliminary Investigation,  
W85-01660 1804 5D

Kinetics of Carbon Utilization in Treatment of Leachate,  
W85-03545 1807 5D

**MAWDSELEY, J. A.**  
Estimating Nonpotential Evapotranspiration by Means of the Equilibrium Evaporation Concept,  
W85-05801 1810 2D

## AUTHOR INDEX

**MCCARTNEY, M. L.**

<b>MAWSON, J. C.</b> Municipal Watershed Management - A Unique Opportunity in Massachusetts, W85-01621	1803 5G	<b>MAZINA, K.</b> Derivatization of Organic and Inorganic N-Chloramines for High-Performance Liquid Chromatographic Analysis of Chlorinated Water, W85-02807	1806 5A	Methodology for Pollution Control Decision Analysis, W85-04582	1809 5G
<b>MAXIM, L. D.</b> Review of the Food and Drug Administration Risk Analysis for Polychlorinated Biphenyls in Fish, W85-04775	1809 5C	<b>MAZOR, E.</b> Tracing Groundwater Components by Chemical, Isotopic and Physical Parameters - Example: Schinznach, Switzerland, W85-06046	1811 2F	Pricing and Expansion of a Water Supply System, W85-04241	1808 6C
<b>MAY, B. D.</b> Determination of COD by a Mercury-Free Open-Tube Method, W85-04467	1809 5A	<b>MAZUKA, T.</b> Spectrophotometric Determination of Nitrite in Waters with 5,7-Dihydroxy-4-imino-2-oxochroman, W85-02833	1806 5A	River Flow Forecasting Model For Sturgeon River, W85-05786	1810 2E
<b>MAY, T. W.</b> National Contaminant Biomonitoring Program: Concentrations of Seven Elements in Freshwater Fish, 1978-1981, W85-07161	1812 5B	<b>MC CLUNG, G.</b> Nutrient Losses in Runoff from Conventional and No-Till Corn Watersheds, W85-01290	1803 5B	<b>MCBEATH, L.</b> Decommissioning of Mercury Cell Chlor-Alkali Plants in Canada, W85-04939	1809 5B
<b>MAYACK, D. T.</b> Effects of Low Concentrations of Particulates from Paper Mill Effluent on the Macroinvertebrate Community of a Fast-Flowing Stream, W85-01003	1802 5C	<b>MC INTOSH, M. S.</b> Nutrient Losses in Runoff from Conventional and No-Till Corn Watersheds, W85-01290	1803 5B	<b>MCBRIE, G. B.</b> Prediction of Chlorophyll a Concentrations in Impoundments of Short Hydraulic Retention Time, W85-06177	1812 2H
<b>MAYAMA, S.</b> Separated Distribution of the Two Varieties of <i>Achanthes minutissima</i> Kuetz. According to the Degree of River Water Pollution, W85-06001	1811 5C	<b>MC CALLISTER, C. D.</b> Microbial Contribution to the Mesotrophic Ecosystem of the Campbell River Estuary During Summer, W85-04673	1809 2L	<b>MCBRIE, R. A.</b> Soil Survey Interpretations from Water Retention Data: I. Development and Validation of a Water Retention Model, W85-03963	1808 2G
<b>MAYASICH, J. M.</b> Effects of the Herbicide Atrazine on an Oyster-Food Organism, W85-01808	1804 5C	<b>MCANALLY, S.</b> Nickel Removal from a Synthetic Nickel-Plating Wastewater Using Sulfide and Carbonate for Precipitation and Coprecipitation, W85-03300	1807 5D	<b>MCBRIE, G. B.</b> Accurate Modeling of River Pollutant Transport, W85-02277	1805 5B
<b>MAYENKAR, K. V.</b> Removal of Chelated Nickel from Wastewaters, W85-05430	1810 5D	<b>MCANEENEY, K. J.</b> Water Use by Tamarillos ( <i>Cyphomandra betacea</i> ) within a Sheltered Orchard Environment, W85-06195	1812 2I	<b>MCBRIE, J. R.</b> Establishment and Survival of Woody Riparian Species on Gravel Bars of an Intermittent Stream, W85-03016	1806 2A
<b>MAYER, F. L. JR.</b> Brain Acetylcholinesterase and Backbone Collagen in Fish Intoxicated with Organophosphate Pesticides, W85-02888	1806 5C	<b>MCARDLE, G. W.</b> Petroleum Refinery Stormwater Run-Off Study, W85-05572	1810 2A	<b>MCBRIE, R. A.</b> Soil Survey Interpretations from Water Retention Data: II. Assessment of Soil Capability Ratings and Crop Performance Indices, W85-03964	1808 2G
<b>MAYER, L. M.</b> Incorporation of Trivalent Chromium into Riverine and Estuarine Colloidal Material, W85-03206	1806 2K	<b>MCARTHUR, J. V.</b> Response of Bacteria Isolated from a Pristine Prairie Stream to Concentration and Source of Soluble Organic Carbon, W85-04266	1808 2K	<b>MCCAIN, B. B.</b> Chemical Pollutants in Sediments and Diseases of Bottom-Dwelling Fish in Puget Sound, Washington, W85-02347	1805 5C
<b>MAYES, M. A.</b> Triclopyr Triethylamine Salt Toxicity to Life Stages of the Fathead Minnow ( <i>Pimephales promelas Rafinesque</i> ), W85-02417	1805 5C	<b>MCALULIFFE, F. L.</b> Evolution of Design of Ford Motor Company Industrial Waste Treatment Facilities, W85-05397	1810 5D	<b>MCCALL, D. J.</b> Calculating Effectiveness of Water Conservation Measures, W85-06021	1811 6F
<b>MAYFIELD, C. I.</b> Detection and Analysis of Interactions between Atrazine and Sodium Pentachlorophenate with Single and Multiple Algal-Bacterial Populations, W85-05107	1810 5C	<b>MCAVOY JR, L.</b> Relationship Between Commercial and Recreational Use of Navigation Locks on the Upper Mississippi River, W85-02985	1806 6D	How Much Water Can You Save With Conservation Measures, W85-05483	1810 3D
<b>MAYO, A. L.</b> Hydrogeochemistry of the Meade Thrust Allochthon, Southeastern Idaho, U.S.A., and Its Relevance to Stratigraphic and Structural Groundwater Flow Control, W85-05531	1810 2F	<b>MCBEAN, E.</b> Forecasting Relative Price Movements for Project Evaluation, W85-03158	1806 6C	<b>MCCALL, P. L.</b> 137-Cs and 210-Pb Transport and Geochronologies in Urbanized Reservoirs with Rapidly Increasing Sedimentation Rates, W85-01099	1802 2J
<b>MAYS, L. W.</b> Optimal Design of Detention and Drainage Channel Systems, W85-04246	1808 4A	Uncertainty Analysis of a Delineated Floodplain, W85-04041	1808 2E	<b>MCCALLUM, I.</b> Aspects of the Limnology of Lake Rotongao, W85-00807	1802 2H
<b>MAZDA, Y.</b> Year-to-Year Change in Water Exchange Characteristics in a Semi-Enclosed Bay, Lake Hamana, W85-02532	1805 2L	Zero Side Yard Housing, Acceptance and Stormwater Management Implications, W85-04580	1809 4A	<b>MCCARTER-ZORNER, N. J.</b> Soft Rot <i>Erwinia</i> Bacteria in Surface and Underground Waters in Southern Scotland and in Colorado, United States, W85-03297	1807 5B
<b>MAZIERSKI, J.</b> Inhibition Coefficient (Ki) Determination in Activated Sludge, W85-07125	1812 5D	<b>MCBEAN, E. A.</b> Deterministic Linear Programming Model for Acid Rain Abatement, W85-06017	1811 5G	<b>MCCARTNEY, D. E.</b> Variability Analysis During Biological Treatability of Complex Industrial Wastewater for Design, W85-05292	1810 5D
		Impact of Alternative Housing Standards on Stormwater Management, W85-06554	1812 4A	<b>MCCARTNEY, M. L.</b> Particulate Load of the Red River, St. Ives Bay: Its Geochemical Composition and the Effect of its Discharge Plume on the Behaviour of a Resident Wild Dolphin, W85-06880	1812 5C

## AUTHOR INDEX

**MCCARTY, P. L.**

**MCCARTY, P. L.**  
Biotransformation of Tetrachloroethylene to Trichloroethylene, Dichloroethylene, Vinyl Chloride, and Carbon Dioxide under Methanogenic Conditions, W85-07127 1812 5B  
Chemical Indicators and Surrogate Parameters in Water Treatment, W85-03623 1807 5F  
Effect of Thermal Pretreatment on the Anaerobic Biodegradability and Toxicity of Waste Activated Sludge, W85-02905 1806 5E  
Modeling of Trace Organics Biotransformation in the Subsurface, W85-01531 1803 5B  
Organic Contaminant Behavior During Rapid Infiltration of Secondary Wastewater at the Phoenix 23rd Avenue Project, W85-05335 1810 5D  
Performance Characteristics of the Anaerobic Baffled Reactor, W85-04495 1809 5D  
**MCCASHION, J. D.**  
Erosion on Logging Roads in Northwestern California: How Much Is Avoidable, W85-01164 1803 2J  
**MCCAULEY, J. R.**  
Application of Remote-Sensing Techniques to Hydrologic Studies in Selected Coal-Mined Areas of Southeastern Kansas, W85-01947 1804 5B  
**MCLYMONDS, N. E.**  
Potential Effects of Surface Coal Mining on the Hydrology of the Corral Creek Area, Hanging Woman Creek Coal Field, Southeastern Montana, W85-02040 1804 5B  
**MCCOLL, J. G.**  
Soil Cation Leaching by 'Acid Rain' with Varying Nitrate-to-Sulfate Ratios, W85-01283 1803 5B  
**MCCOMAS, S. R.**  
Metals and Chlorinated Hydrocarbons in Surficial Sediments of Three Nile Delta Lakes, Egypt, W85-05037 1810 6G  
**MCCONNACHIE, G. L.**  
Flocculation and Turbulence from Bubble-Induced Mixing, W85-03021 1806 5F  
**MCCONNELL, A. D.**  
Stress-Deformation Predictions for the LG 4 Main Dam, W85-00141 1801 8D  
**MCCONNELL, L. K.**  
Reovirus Removal and Inactivation by Slow-Rate Sand Filtration, W85-02940 1806 5F  
**MCCOOL, D. K.**  
Freeze-Thaw and Consolidation Effects on Strength of a Wet Silt Loam, W85-06082 1811 2J  
**MCCOOL, S. P.**  
Ammonium Ion, Humic Materials, and Trihalomethane Potential in Northeastern Kansas Ground Waters, W85-03155 1806 2K  
**MCCORMACK, H. F.**  
Surface Water and Climatologic Data, Salt Lake County, Utah, Water Year 1981, With Selected Data for Water Years 1980 and 1982, W85-00603 1802 7C

**MCCORMICK, J. H.**  
Toxicity of Ammonia to Early Life Stages of the Green Sunfish *Lipomis cyanellus*, W85-03045 1806 5C  
**MCCORMICK, R. L.**  
Automated Weather Data Collection for Research on Irrigation Scheduling, W85-01181 1803 7B  
Water Use Efficiency of Narrow Row Cotton, W85-05918 1811 3F  
**MCCORQUODALE, J. A.**  
Hydrodynamic of Circular Primary Clarifiers, W85-01716 1804 5D  
**MCCOY, W. F.**  
Fluorometric Determination of the DNA Concentration in Municipal Drinking Water, W85-06142 1811 5A  
**MCCREARY, J. J.**  
Determination of Aldicarb, Aldicarb Oxime, and Aldicarb Nitrile in Water by Gas Chromatography/Mass Spectrometry, W85-01078 1802 5A  
**MCCRUM, W. A.**  
Use of Second Order Derivative Spectroscopy in the Investigation of Sources of Coloured Pollutants in Water, W85-03541 1807 5A  
**MCCUBBIN, N.**  
Basic Technology of the Pulp and Paper Industry and Its Environmental Protection Practices, W85-04932 1809 5D  
State-of-the-Art of the Pulp and Paper Industry and Its Environmental Protection Practices, W85-04232 1808 5D  
**MCCUEN, R. H.**  
Conceptual and Empirical Comparison of Methods for Predicting Peak-Runoff Rates, W85-04331 1808 2E  
Estimating Urban Time of Concentration, W85-01557 1803 2E  
Predicting Hydrologic Effects of Urbanization by Using Soil Conservation Service Methods, W85-04332 1808 4C  
**MCCULLOUGH, G. K.**  
Effect of Impoundment and Diversion on the Sediment Budget and Nearshore Sedimentation of Southern Indian Lake, W85-00633 1802 6G  
Shoreline Erosion and Restabilization in the Southern Indian Lake Reservoir, W85-00632 1802 6G  
Southern Indian Lake Impoundment and Churchill River Diversion, W85-00631 1802 6G  
**MCDANIEL, V.**  
Corn Silage Response to Subsurface Drainage on Alluvial Soil, W85-04738 1809 2G  
Hydraulic Conductivity Measured Electronically in an Auger Hole, W85-04740 1809 2G  
**MCDERMOTT, K. T.**  
Waterborne Transmission of *Campylobacter Enteritis*, W85-02188 1805 5F  
**MCDEVITT, M.**  
Innovative Process for Treating Recycled Cooling Water, W85-03334 1807 5D  
**MCDONALD, A.**  
Process Based Model of Faecal Bacterial Levels in Upland Catchments, W85-01420 1803 5B  
**MCDONALD, T. J.**  
Volatile Organic Inputs from an Ocean Outfall Near Barceloneta, Puerto Rico, W85-01963 1804 5E  
**MCDONNELL, A. J.**  
Concurrent Denitrification and Oxygen Uptake in Microbial Films, W85-06226 1812 2K  
Mathematical Analysis of Oxygen and Nitrate Consumption in Deep Microbial Films, W85-06227 1812 2H  
**MCDOWELL, D. M.**  
Jamuna River 230 kV Crossing - Bangladesh, I. Design of Foundations, W85-04470 1809 8A  
**MCDOWELL, L. L.**  
Adsorption of Phosphate, Arsenate, Methanearsonate, and Cadodate by Lake and Stream Sediments: Comparisons with Soils, W85-01297 1803 5B  
Leaching of Nitrogen, Phosphorus, and Organic Carbon from Wheat Straw Residues: I. Rainfall Intensity, W85-06723 1812 5B  
Plant Nutrient Yields in Runoff from a Mississippi Delta Watershed, W85-03397 1807 2J  
**MCDOWELL, W. H.**  
Temporal Changes in Numbers of Suspended Bacteria in a Small Woodland Stream, W85-05672 1810 2H  
**MCELROY, L. J.**  
Detection of Industrial Pollutants and Toxic Chemical Wastes in Sewage Treatment Plant Influents by Use of a Biological Monitor, W85-00107 1801 5D  
**MCELWEE, C. D.**  
Analysis of Leaky Aquifer Pumping Test Data: An Automated Numerical Solution Using Sensitivity Analysis, W85-00315 1801 2F  
Aquifer-Parameter Evaluation from Variable-Rate Pumping Tests Using Convolution and Sensitivity Analysis, W85-05842 1810 2F  
Hand Calculator Program for Evaluating Theis Parameters from a Pumping Test, W85-00332 1801 4B  
Sensitivity Analysis and the Ground-Water Inverse Problem, W85-00350 1801 2F  
**MCEWAN, E. M.**  
Invertebrate Colonization of Submerged Wood in a Cypress-Tupelo Swamp and Blackwater Stream, W85-05120 1810 2H  
**MCFADYEN, J. A.**  
Yield and Quality of Cotton Grown with Wastewater, W85-01869 1804 5D  
**MCFARLAND, D. G.**  
Seasonal Growth and Community Composition of Phytoplankton in a Eutrophic Wisconsin Impoundment, W85-04311 1808 2H  
**MCFARLAND, M. J.**  
Stomatal Responses to Leaf Water Potentials of Drip Irrigated Peach (*Prunus persica*), W85-04746 1809 2I  
**MCFARLANE, R. C.**  
Lawn and Garden Watering Regulations: Conservation Through a Water Use Index, W85-04695 1809 3D

## AUTHOR INDEX

MCCLAREN, F. R.

<b>MCFEE, W.</b>				
Rocky Mountain Acidification Study, W85-06359	1812	5C		
<b>MCFETERS, G. A.</b>				
Evaluation of m-T7 Agar as a Fecal Coliform Medium, W85-02598	1805	5A		
Evidence for the Role of Copper in the Injury Process of Coliform Bacteria in Drinking Water, W85-02594	1805	5F		
Interactions between Heterotrophic Plate Count Bacteria and Coliform Organisms, W85-07133	1812	5A		
New Medium for Improved Recovery of Coliform Bacteria from Drinking Water, W85-00103	1801	5A		
Recent Advances in Coliform Methodology for Water Analysis, W85-02722	1806	5A		
<b>MCGARVEY, F. X.</b>				
Source of Deionized Water for High-Pressure Steam, W85-06061	1811	5F		
<b>MCGARVIE, S. D.</b>				
Major Aquifers in Miner County, South Dakota, W85-01950	1804	2F		
<b>MCGINLEY, P. M.</b>				
Chemical Characteristics of Leachate from Municipal Solid Waste Landfills in Wisconsin, W85-05371	1810	5E		
<b>MCGOWAN, M.</b>				
Soil Water Regimes of Soils Developed on Keuper Marl, W85-01327	1803	2G		
<b>MCGROGAN, H.</b>				
Planktonic and Benthic Bacterial Populations of Lough Neagh, W85-05807	1810	2H		
<b>MCGUCKIN, J. T.</b>				
Irrigated Agricultural Decision Strategies for Variable Weather Conditions, W85-06340	1812	6A		
<b>MC GUIRE, M. J.</b>				
Blending Chloraminated and Chlorinated Waters, W85-05476	1810	5F		
Controlling Attached Blue-Green Algae with Copper Sulfate, W85-00703	1802	5G		
Converting from Chlorine to Chloramines: A Case Study, W85-05474	1810	5F		
Determination of Subnanogram per Liter Levels of Earthy-Musty Odorants in Water by the Salted Closed-Loop Stripping Method, W85-01126	1803	5A		
Scuba Diving: A Tool for Managing Water Quality, W85-03622	1807	5F		
Tastes and Odors: The Flavor Profile Method, W85-06582	1812	5F		
<b>MC HENRY, J. R.</b>				
Comparison of Three Methods for Measuring Recent Rates of Sediment Accumulation, W85-06244	1812	2J		
<b>MCILROY, I. C.</b>				
Terminology and Concepts in Natural Evaporation, W85-06670	1812	2D		
<b>MCINERNEY, J.</b>				
Marine Disposal of Mine Tailing, W85-02324	1805	5C		
<b>MCINTOSH, A.</b>				
Accumulation of the Trace Elements Lead and Zinc by <i>Asellus communis</i> at Three Different pH Levels, W85-01795	1804	5B		
<b>MCINTOSH, D. J.</b>				
Biochemistry of Acetate in Anoxic Sediments of Skan Bay, Alaska, W85-03207	1806	2L		
<b>MCINTOSH, P. T.</b>				
Cost Sharing in a Multipurpose Water Project, W85-04778	1809	6C		
<b>MCINTOSH, T. H.</b>				
Role of Sediments in the Nitrogen Budget of Lower Green Bay, Lake Michigan, W85-01754	1804	5B		
<b>MCINTYRE, A. E.</b>				
Behaviour of Persistent Organochlorine Micropollutants During Primary Sedimentation of Waste Water, W85-03031	1806	5D		
Occurrence and Distribution of Persistent Organochlorine Compounds in U.K. Sewage Sludges, W85-04012	1808	5D		
<b>MC KAY, C. P.</b>				
Thickness of Ice on Perennially Frozen Lakes, W85-04883	1809	2C		
<b>MC KAY, G.</b>				
Adsorption of Various Pollutants from Aqueous Solutions on to Activated Carbon, W85-06736	1812	5D		
Fuller's Earth and Fired Clay as Adsorbents for Dyestuffs; Equilibrium and Rate Studies, W85-05701	1810	5D		
<b>MC KAY, L. D.</b>				
Integrating Water Quality and Construction Grant Management, W85-02583	1805	5G		
<b>MC KAY, W. A.</b>				
Hydrogeochemical Investigation of Thermal Springs in the Black Canyon-Hoover Dam Area, Nevada and Arizona, W85-01804	1804	2K		
<b>MC KEAN, C. J. P.</b>				
Effects of Heavy Metal Contamination of the Aquatic Biota of Butte Lake and the Campbell River Drainage (Canada), W85-07160	1812	5C		
<b>MC KEE, C. R.</b>				
Detection of an Impermeable Boundary in an Anisotropic Formation: A Case Study, W85-02691	1805	2F		
In-Situ Determination of Three-Dimensional Aquifer Permeabilities, W85-00338	1801	2F		
<b>MC KEE, K.</b>				
Biological Treatability of Photoprocessing Wastewater: Part I, W85-05560	1810	5D		
<b>MC KEE, K. L.</b>				
Impact and Mitigation of Man-Made Canals in Coastal Louisiana, W85-00569	1802	6G		
<b>MC KEE, M.</b>				
Development of a Comprehensive Upper Colorado River Basin Model for Analyzing Energy Development Impacts, W85-06323	1812	4A		
<b>MC KEE, W. H. JR.</b>				
Growth and Nutrient Status of Loblolly Pine Seedlings in Relation to Flooding and Phosphorus, W85-03968	1808	2I		
<b>MC KELLAR, D. A.</b>				
Growth Response of <i>Anacystis nidulans</i> to Sodium and Phosphate Availability, W85-05866	1811	5C		
<b>MC KELLAR, H. N. JR.</b>				
Determination of Optimum Minimum Flow from a Dam by Using Energy Analysis, W85-02297	1805	4A		
<b>MC KENNA, J. M.</b>				
Empingham Reservoir - Seepage Control Measures, W85-06175	1812	8E		
<b>MC KENNEY, C. L.</b>				
Effects of Fenvalerate on Larval Development of <i>Palaemonetes pugio</i> ( <i>Holothuriid</i> ) and on Larval Metabolism during Osmotic Stress, W85-03691	1807	5C		
<b>MC KENZIE, D. J.</b>				
Quality of Water Recovered from a Municipal Effluent Injection Well in the Floridian Aquifer System, Pompano Beach, Florida, W85-03932	1808	5E		
Water-Quality Assessment of Stormwater Runoff from a Heavily Used Urban Highway Bridge in Miami, Florida, W85-00841	1802	5B		
<b>MC KENZIE, S. W.</b>				
Method for Relating Suspended-Chemical Concentrations to Suspended-Sediment Particle-Size Classes in Storm-Water Runoff, W85-00614	1802	5B		
<b>MC KEOGH, E.</b>				
Finite Element Solutions for Mass Oscillations in Surge Tanks, W85-04155	1808	8B		
<b>MC KEOWN, B. A.</b>				
Acephate in Rainbow Trout ( <i>Salmo gairdneri</i> ): Acute Toxicity, Uptake, Elimination, W85-00169	1801	5C		
Effects of Acephate (Orthene) on Development and Survival of the Salamander, <i>Ambystoma gracile</i> (Baird), W85-00170	1801	5C		
In Vitro Effects of Acephate on Acetylcholinesterase Activity in the Brain and Gills of Rainbow Trout, <i>Salmo gairdneri</i> , W85-00171	1801	5C		
<b>MC KINLEY, K. J.</b>				
Application of Anaerobic Packed-Bed Reactors to Industrial Wastewater Treatment, W85-05281	1810	5D		
<b>MC KINNIN, I. G.</b>				
Radioactinium and 210Pb in Clyde Sea Loch Sediments, W85-00659	1802	5B		
<b>MC KINNON, R. J.</b>				
Removing Organics from Groundwater through Aeration Plus GAC, W85-00700	1802	5F		
Simplifying Stormwater Detention Basin Discharge Control Determinations, W85-00735	1802	8A		
<b>MC KNIGHT, D. M.</b>				
Ecological Effect of Acid Conditions and Precipitation of Hydrous Metal Oxides in a Rocky Mountain Stream, W85-04389	1808	2H		
<b>MC KNIGHT, K. B.</b>				
Effects of Increasing Snowpack on a Subalpine Meadow in the Uinta Mountains, Utah, U.S.A., W85-00236	1801	2C		
<b>MC LAREN, F. R.</b>				
Suction Side Sample Catcher in Ground Water Quality Sampling, W85-03174	1806	5A		

## AUTHOR INDEX

### MCLAUGHLIN, J. J. A.

**MCLAUGHLIN, J. J. A.**  
 Population Growth Patterns of Skeletonema costatum and Nutrient Levels in the Lower East River, New York, U.S.A.,  
 W85-00397 1801 5C

**MCLEAN, D. G.**  
 Field Observations of River Bed Scour on the Peace River near Fort Vermilion, Alberta,  
 W85-05457 1810 8D

**MCLEAN, S. R.**  
 Model for Flow in Meandering Streams,  
 W85-02671 1805 2E

**MCLENDON, B. D.**  
 Irrigation Scheduling - A Valid Option with Microprocessor-Based Controls,  
 W85-01076 1802 3F

**MCLEOD, H. A.**  
 Incidence and Levels of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Lake Ontario Commercial Fish,  
 W85-02349 1805 5B

**MCLoughlin, A. J.**  
 Lytic as a Factor in Sludge Flocculation,  
 W85-04299 1808 5D

**MCLOUTH, M. E.**  
 New Canal and Improvements Avert Stormwater Runoff Problems,  
 W85-06836 1812 4A

**MCLUSKY, D. S.**  
 Effect of Temperature and Salinity on the Toxicity of Chromium to Three Estuarine Invertebrates (*Corophium volutator*, *Macoma balthica*, *Nereis diversicolor*),  
 W85-04083 1808 5C

**MCMAHON, A. J.**  
 New Tactic Against Hazardous Waste,  
 W85-06818 1812 6E

**MCMAHON, T. A.**  
 Sequential Generation of Short Time-Interval Rainfall Data,  
 W85-01235 1803 2B

**MCMILLION, L. G.**  
 Stochastic Simulation of Evaporation Data for Australia,  
 W85-01236 1803 2D

**MCMILLION, T. G.**  
 Fluxes of Organic Carbon in a Fjord on the West Coast of Ireland,  
 W85-02656 1805 2L

**MCMURTRIE, R.**  
 Vadose Zone Monitoring Concepts for Hazardous Waste Sites,  
 W85-00314 1801 5A

**MCMURTRY, M. J.**  
 Water Use by Isolated Trees,  
 W85-06677 1812 2E

**MCMURTRY, M. J.**  
 Avoidance of Sublethal Doses of Copper and Zinc by Tubificid Oligochaetes,  
 W85-02889 1806 5C

**MCNABB, C. D.**  
 Predicting Concentration of Total Phosphorus and Chlorophyll a in a Lake with Short Hydraulic Residence Time,  
 W85-06789 1812 2H

**MCNAMARA, A. M.**  
 Effect of Temperature, pH, and Oxygen Level on the Multiplication of Naturally Occurring *Legionella pneumophila* in Potable Water,  
 W85-07128 1812 5B

**MCNEARNY, R. L.**  
 Influence of Grain Size Distribution on the Undrained Dynamic Properties of Saturated Sand,  
 W85-06905 1812 8D

**MCNULTY, M. F.**  
 Arizona Water Issues: Contrasting Economic and Legal Perspectives,  
 W85-04756 1809 6E

**MCNUTT, R. H.**  
 Water-Rock Interaction and Chemistry of Groundwaters from the Canadian Shield,  
 W85-03205 1806 2K

**MCPHERSON, B. F.**  
 Fouling Community of the Loxahatchee River Estuary, Florida, 1980-81,  
 W85-02398 1805 2L

**MCQUEEN, D. J.**  
 Aeration of Anoxic Hypolimnetic Water: Effects on Nitrogen and Phosphorus Concentrations,  
 W85-02626 1805 5G

**MCSAVENY, M. J.**  
 Spatial Variability of Low Flows across a Portion of the Central Southern Alps, New Zealand,  
 W85-02556 1805 2E

**MCSHANE, P. E.**  
 Light Climate in the Gippsland Lakes, Victoria,  
 W85-03495 1807 2H

**MCSWEENEY, W. T.**  
 Evaluation of Alternative Policies for Controlling Agricultural Nonpoint Source Pollution,  
 W85-04989 1810 6B

**MCTERNAN, E. M.**  
 Techniques and Equipment Used in Contaminant Detection at Hoe Creek Underground Coal Gasification Experimental Site,  
 W85-03182 1806 7B

**MCTIERNAN, W. F.**  
 Chemical Coagulation of Tar Sand Processing Wastewater,  
 W85-05399 1810 5D

**MCVEETY, B. D.**  
 Polychlorinated Dibenz-p-dioxins and Dibenzofurans in Sediments from Siskiwit Lake, Isle Royale,  
 W85-03025 1806 5B

**MCWETHY, M.**  
 Effect of Three Marsh Management Techniques on the Ecology of Irregularly Flooded Chesapeake Bay Wetlands: Vegetation and Water Quality Studies, Parts I and II,  
 W85-05347 1810 4A

**MCWHORTER, D. B.**  
 Unsaturated Soil Hydraulic Properties from Redistribution of Injected Water,  
 W85-03386 1807 2G

**MCWILLIAM, J. R.**  
 Effects of Soil Bulk Density and Water Regimen on Root Growth and Uptake of Phosphorus by Ryegrass,  
 W85-06098 1811 2G

**MCWILLIAMS, L.**  
 Bumper Crop Yields Growing Problems,  
 W85-00277 1801 5G

**MEADOWS, G. A.**  
 Response of the Coastal Boundary Layer to Wind and Waves: Analysis of an Experiment in Lake Erie,  
 W85-02960 1806 2H

**MEAGHER, R. F.**  
 Computer Controlled Operation of an Activated Sludge Plant,  
 W85-01652 1804 5D

**MEAN, P.**  
 Impact of Water Degradation on Regional Agricultural Economy,  
 W85-01513 1803 4B

**MEANS, E. G.**  
 Controlling Attached Blue-Green Algae with Copper Sulfate,  
 W85-00703 1802 5G

**Scuba Diving: A Tool for Managing Water Quality,**  
 W85-03622 1807 5F

**MEANS, J. C.**  
 Reaction of Dissolved Chlorine with Surficial Sediment: Oxidant Demand and Production of Trihalomethanes,  
 W85-06149 1811 5B

**Sorption of Polycyclic Aromatic Hydrocarbons by Natural Estuarine Colloids,**  
 W85-01349 1803 5B

**MEARELLI, M.**  
 Determination of the Trophic State of Lake Trasimeno by Indirect Analysis of Nitrogen and Phosphorus (Determinazione Dello Stato Trofico Del Lago Trasimeno Attraverso La Valutazione Indiretta Dell'Azoto E Del Fosforo),  
 W85-02497 1805 5C

**MECHREZ, E.**  
 Combined Effect of Wind and Topography on Rainfall Distribution,  
 W85-01166 1803 2B

**MECKEL, L.**  
 Effect of Moisture Stress on Seed Growth in Soybeans,  
 W85-03356 1807 2I

**MEDEIRO, C.**  
 Laboratory Assessment of the Toxicity of Urban Runoff on the Fathead Minnow (*Pimephales promelas*),  
 W85-02124 1804 5C

**MEDINA, M. A. JR.**  
 Integrated Methodology for Instream Flow Strategies,  
 W85-01951 1804 5B

**MEEK, D. W.**  
 Automated Weather Data Collection for Research on Irrigation Scheduling,  
 W85-01181 1803 7B

**MEEK, J.**  
 Nonpoint Sources of Water Pollution,  
 W85-05940 1811 5B

**MEEK, M. E.**  
 Asbestos in Drinking Water: A Canadian View,  
 W85-02715 1806 5A

**MEENAKSHY, V.**  
 Some Observations on the Chemical Composition of Precipitation in an Industrial Area and Its Use in Air Quality Assessment,  
 W85-02129 1804 5B

**MEENS, V.**  
 Fresh Water-Salt Water Interface in French Flanders (L'Interface eau douce-eau salee en Flandres francaises),  
 W85-06447 1812 2L

**MEGAHAN, W. F.**  
 Identification of Critical Areas on Forest Lands for Control of Nonpoint Sources of Pollution,  
 W85-05068 1810 2J

**MEGANCK, M.**  
 Biological Phosphorus Removal: Study of the Main Parameters,  
 W85-03645 1807 5D

**MEGARD, J.**  
 Study of the Behavior of Boats and Units under Cross-Current and Wind Action at the Entrance to the Fos-Rhone Canal Link (Etude de l'évolution des bateaux et convois soumis aux courants

## AUTHOR INDEX

MENDELSSOHN, I. A.

traversiers et au vent, a l'entree du canal de liaison Fos-Rhone),  
W85-00378 1801 8B

**MEGNINT, L.**  
Development of Axial Flow Machines for use in Tidal Power Plants (Evolution des Groupes Axiaux pour l'Equipement des Installations Marémotrices),  
W85-05346 1810 8C

**MEHANNA, A. M.**  
Measurements and Estimates of Potential Evapotranspiration over Egypt,  
W85-01059 1802 2D

**MEHLHAFF, P.**  
Effects of Dissolved Organic Carbon on the Adsorption Properties of Plutonium in Natural Waters,  
W85-04799 1809 5B

**MEHLUM, F.**  
Concentrations of Seabirds Along the Face of Glaciers and Outlets of Rivers in Svalbard (Konsentrasjoner av sjøfugl langs kanten av isbreer og utenfor breelver på Svalbard),  
W85-04608 1809 2L

**MEHRAN, M. F.**  
Elimination of Ammonia Interference in the Purge-and-Trap GC Determination of Organohalogens in Water,  
W85-02811 1806 5A

Simplified Liquid-Liquid Extraction Method for Analysis of Trihalomethanes in Drinking Water,  
W85-00697 1802 5A

**MEHTA, H.**  
Statistical Considerations in the Evaluation of Chronic Aquatic Toxicity Studies,  
W85-03971 1808 5A

**MEIER, J. R.**  
Mutagenicity of Coal Tar Paints Used in Drinking Water Distribution Systems,  
W85-03659 1807 8G

Use of Biological Assay Systems to Assess the Relative Carcinogenic Hazards of Disinfection By-Products,  
W85-01218 1803 5F

**MEIER, P. G.**  
Evaluation of Giardia Cyst Removal via Portable Water Filtration Devices,  
W85-02244 1805 5F

Organochlorine Pesticide Residues in Paddy Fish in Malaysia and the Associated Health Risk to Farmers,  
W85-01438 1803 5B

Periphytic Oxygen Production in Outdoor Experimental Channels,  
W85-02432 1805 2I

**MEIGHAN, R. B.**  
Impact of Combined Sewer Overflows from San Francisco on the Western Shore of Central San Francisco Bay,  
W85-04292 1808 5C

**MEIJER, H. A.**  
Industrial Effluent Control in the Netherlands and Legislation in this Field in Some Other European Countries,  
W85-04520 1809 5G

**MEIJER, J. A. M.**  
Solubilities and Supersaturations of Calcium Sulfate and its Hydrates in Seawater,  
W85-05114 1810 3A

**MEIJER, M. L.**  
Available Phosphorus in Lake Sediments in the Netherlands,  
W85-02092 1804 2H

**MEIKLE, R. L.**  
Drainage Areas of Selected Sites on Streams in North Carolina,  
W85-00399 1802 7C

**MEISBURGER, E. P.**  
Geological Character and Mineral Resources of South Central Lake Erie,  
W85-06907 1812 2H

**MEIER, H. F.**  
Comparison of a Simple and a Complex Sediment Phosphorus Model,  
W85-01303 1803 2H

**MEKO, D. M.**  
Secular Variations in Streamflow in the Western United States,  
W85-03845 1808 2E

**MEKURIA, G.**  
Swan Lake: A Small Hydro Scheme for Ketchikan,  
W85-03324 1807 8A

**MEL'NIK, V. G.**  
Use of Low-Strength Soils for Constructing Dams,  
W85-00481 1801 8D

Use of Weak Rocks in Dam Construction Abroad,  
W85-00433 1801 8E

**MELACK, J. M.**  
Amazon Floodplain Lakes: Shape, Fetch, and Stratification,  
W85-04568 1809 2H

Chlorophyll Differences in Mono Lake (California) Observable on Landsat Imagery,  
W85-06004 1811 2H

Large, Deep Salt Lakes: A Comparative Limnological Analysis,  
W85-05758 1810 2H

Major Ion Chemistry and Sensitivity to Acid Precipitation of Sierra Nevada Lakes,  
W85-04789 1809 5C

Responses of Phytoplankton to Experimental Nutrient Enrichment in an Amazon Floodplain Lake,  
W85-02785 1806 5C

Transport of Carbon, Nitrogen, Phosphorus, and Major Solutes in the Gambia River, West Africa,  
W85-02220 1805 2H

Vertical Distribution of Zooplankton and Physico-Chemical Conditions During a 24-hour Period in an Amazon Floodplain Lake - Lago Calado, Brazil,  
W85-06449 1812 2H

Vertical Mixing in Amazon Floodplain Lakes,  
W85-04569 1809 2H

**MELANCON, S. M.**  
Relationships Among Observed Metal Concentrations, Criteria, and Benthic Community Structural Responses in 15 Streams,  
W85-02584 1805 5A

**MELANEN, M.**  
Research of On-Site Wastewater Treatment and Disposal in Finland,  
W85-05221 1810 5D

**MELCER, H.**  
Treatment of Coke Plant Wastewater in the Coupled Predenitrification-Nitrification Fluidized Bed Process,  
W85-05272 1810 5D

Two-Stage Biological Fluidized Bed Treatment of Coke Plant Wastewater for Nitrogen Control,  
W85-01655 1804 5D

**MELENTEV, V. A.**  
Seepage Regime of the Hydraulic-Fill Dam of the Minechaur Hydropower Development,  
W85-03577 1807 8D

**MELFI, D. A.**  
Analysis of Total Phosphorus Transport in River Systems,  
W85-02074 1804 2E

**MELIKHOV, I. V.**  
Some Characteristics of Chemical Crystallization in Water Purification Process,  
W85-04409 1809 5F

**MELILLO, J. M.**  
Nitrogen Budget of a Subarctic Stream Altered by Beaver (*Castor canadensis*),  
W85-02029 1801 2H

Nitrogen Fixation in Subarctic Streams Influenced by Beaver (*Castor canadensis*),  
W85-05737 1810 2H

**MELLET, J.**  
Behavior of Tritium in the Marine Environment: Uptake and Distribution of Tritiated Water and of Tritiated Organic Compounds in Unicellular and Multicellular Algae,  
W85-03501 1807 5B

**MELLINGER, P. L.**  
Aquatic Pathways Model to Predict the Fate of Phenolic Compounds,  
W85-04222 1808 5B

**MELLO, J. W.**  
Groundwater Supply Survey,  
W85-00702 1802 5F

**MELNICK, J. L.**  
Instrument for the Immediate Quantification of Bacteria in Potable Waters,  
W85-07130 1812 5A

Isolation of Enteroviruses from Water, Suspended Solids, and Sediments from Galveston Bay: Survival of Poliovirus and Rotavirus Adsorbed to Sediments,  
W85-02599 1805 5A

**MELNIK, V. G.**  
Using Poor Quality Rock Materials for Dam Building,  
W85-04029 1808 8E

**MELVILLE, B. W.**  
Live-Bed Scour at Bridge Piers,  
W85-02452 1805 8B

**MELVILLE, J. G.**  
Analysis of Dispersion in a Stratified Aquifer,  
W85-03160 1806 2F

Field Determination of Aquifer Thermal Energy Storage Parameters,  
W85-00355 1801 2F

**MEMON, B. A.**  
Hydrogeology of Wadi Al-Yammaniyah, Saudi Arabia,  
W85-01527 1803 2F

**MENDEL, H. G.**  
Spatial Variability in Rainfall Distribution and Runoff Process in Small Catchment Areas (Raumliche Niederschlagsverteilung und Abflussprozess in kleinen Einzugsgebieten),  
W85-00901 1802 2A

**MENDELSSOHN, I. A.**  
Effects of Soil Waterlogging on the Energy Status and Distribution of *Salix nigra* and *S. exigua* (Salicaceae) in the Atchafalaya River Basin of Louisiana,  
W85-04943 1809 2I

Impact and Mitigation of Man-Made Canals in Coastal Louisiana,  
W85-00569 1802 6G

## AUTHOR INDEX

MENDIETA, H. B.

**MENDIETA, H. B.**  
Water Quality of Belton Lake, Central Texas,  
W85-00622 1802 5A

**MENDOZA, C.**  
Scour at Culvert Outlets in Multibed Materials,  
W85-06071 1811 2J

Unified Culvert Scour Determination,  
W85-03013 1806 8B

**MENDOZA, C. G.**  
Triclopyr Triethylamine Salt Toxicity to Life  
Stages of the Fathead Minnow (*Pimephales pro-  
metes Rafinesque*),  
W85-02417 1805 5C

**MENEZ, J. P.**  
Development and Validation of a Waste  
Strength Equalization Basin Design Technique,  
W85-05574 1810 5D

**MENEZES, M. R.**  
Use of Electrophoresis and Immunoelectrophoresis  
in Taxonomic and Pollution Studies,  
W85-02343 1805 5C

**MENNESSIER, J. P.**  
Stable Lead Isotopes in Pond Sediments as  
Tracer of Past and Present Atmospheric Lead  
Pollution in Belgium,  
W85-03596 1807 5B

**MENNINGER, F. J.**  
Technical Support Package on Solar-Powered  
Water Distillation,  
W85-06916 1812 5F

**MENSCHEL, G.**  
Kinetic Factors of CaCO<sub>3</sub>-Precipitation and the  
Partitioning of 12C and 13C. Studies at the Waterfalls of Guterstein and Urach (Schwabische Alb) (Kinetische Faktoren der CaCO<sub>3</sub>-Abscheidung und der Fraktionierung von 12C und 13C. Untersuchungen an den Wasserfällen von Guterstein und Urach (Schwabische Alb)),  
W85-01162 1804 1B

**MENTINK, J.**  
Polyaluminum Chloride and Alum Coagulation  
of Clay-Fulvic Acid Suspensions,  
W85-06588 1812 5F

**MENZ, F. C.**  
Effect of Acidification Damages on the Economic Value of the Adirondack Fishery to New York Anglers,  
W85-07034 1812 5C

**MENZEL, B. W.**  
Method for Measuring Oxygen in Aquatic Microzones,  
W85-04312 1808 2K

**MENZEL, R. G.**  
Coflocculation of Algae and Clay to Clarify Turbid Impoundments,  
W85-01324 1803 5G

**MERA, F. E.**  
Practical Steps Leading Toward the Effluent-Free Mill,  
W85-06058 1811 5D

**MERANGER, J. C.**  
Arsenic in Nova Scotian Groundwater,  
W85-03032 1806 5A

**MERCER, J. W.**  
Finite Element Matrix and Mass Balance Computational Schemes for Transport in Variably Saturated Porous Media,  
W85-05798 1810 5B

Geohydrology of the Proposed Waste Isolation Pilot Plant Site, Los Medanos Area, Southeastern New Mexico,  
W85-00594 1802 2F

Ground-Water Modeling,  
W85-05351 1810 2F

**MEREDITH, D. D.**  
Improve Operation or Build New Projects,  
W85-01570 1803 6B

**MERICAS, C.**  
Phosphorus-Based Fish Kill Response Function for Use with Stochastic Lake Models,  
W85-03836 1808 5C

**MERICAS, C. E.**  
Mathematical Representation of Short Term Phosphorus Variations in a Non-Stratified Southern Lake,  
W85-06285 1812 2H

**MERILAINEN, J.**  
Phytoplankton in 151 Eastern Finnish Lakes: Species Composition and its Relations to the Water Chemistry,  
W85-04543 1809 2H

Varve-Dated Eutrophication History of a Small Lake,  
W85-05628 1810 5C

**MERILAINEN, J. J.**  
Macrophyte Vegetation at the River Kyronjoki Estuary in 1982,  
W85-06297 1812 2L

**MERKEL, B.**  
Determination of Inorganic Carbon (TIC) in Small Samples with the Use of Micro-computers (Einsatz von Micro-Computern bei der Bestimmung von anorganischem Kohlestoff (TIC) in geringen Wassermengen),  
W85-02741 1806 5A

PE-PVC-Suction Cup in Sandwich Construction for Taking Seepage Water Samples, (Eine Kunststoff-Saugkerze in Sandwichbauweise zur Gewinnung von Sickerwasserproben),  
W85-03592 1807 7B

Studies on the Drainage Behavior of Quarternary Gravel and Sand Mixtures (Untersuchungen Zum Entwässerungsverhalten Von Quartären Kies- und Sandgemischen),  
W85-01055 1802 2G

**MERKEL, S.**  
Pyrite Formation and the Measurement of Sulfate Reduction in Salt Marsh Sediments,  
W85-01332 1803 2L

**MERKEL, S. M.**  
Distribution and Activity of Bacteria in the Headwaters of the Rhode River Estuary, Maryland, USA,  
W85-03237 1807 2L

**MERKEL, W.**  
Water Supply in the Federal Republic of Germany,  
W85-02002 1804 6D

**MERMOUD, F.**  
5-alpha(H)-Cholestan-3-alpha-ol in Sediments: Characterization and Geochemical Significance,  
W85-04759 1809 2K

**MERON, M.**  
Response of Cotton Water Stress Indicators to Soil Salinity,  
W85-05164 1810 2I

**MERRELL, B. R.**  
Aeromonas sobria in Chlorinated Drinking Water Supplies,  
W85-02187 1805 5F

**MERRICK, N. J.**  
Controlling Residual Polychlorinated Biphenyls in Wastewater Treatment Through Conventional Means,  
W85-05263 1810 5D

**MERRIEN, A.**  
Agronomic Aspects of Drought Resistance of the Sunflower (*Helianthus annuus* L.) (Aspects Agronomiques de la Resistance a la Secheresse chez le Tournesol (*Helianthus annuus* L.)),  
W85-02334 1805 2I

**MERRILL, D. T.**  
Effect of Plastic Media Configuration on Trickling Filter Performance,  
W85-02576 1805 5D

**MERRILL, S. D.**  
Effect of Disturbed Soil Thickness on Soil Water Use and Movement under Perennial Grass,  
W85-05190 1810 2I

**MERRILL, T.**  
Use of Quantitative Analysis of Urine to Assess Exposure to Asbestos Fibers in Drinking Water in the Puget Sound Region,  
W85-02712 1806 5A

**MERRITT, M. L.**  
Subsurface Storage of Freshwater in South Florida: A Digital Model Analysis of Recoverability,  
W85-00601 1802 4B

Subsurface Storage of Freshwater in South Florida: A Prospectus,  
W85-00029 1801 4B

**MERRY, C. E.**  
Water Resources Data, Kansas Water Year 1982,  
W85-01932 1804 2E

**MERZLYAKOV, V. P.**  
Comments on Calculation of the Stress State in an Anisotropic Rock Foundation,  
W85-02228 1805 8E

**MESNIER, R.**  
Enzymatic Hydrolysis Tests on an Industrial Effluent Prior to its Biological Purification (Essais d'Hydrolyse Enzymatique d'un Effluent Industriel avant son Epuration Biologique),  
W85-01975 1804 5D

**MESRI, G.**  
Settlement Analysis of Embankments on Soft Clays,  
W85-06023 1811 8D

**MESSER, J. J.**  
Effects of Subacute Cadmium Exposure on a Hardwater Mountain Stream Microcosm,  
W85-07123 1812 5C

Ionic Strength Correction for Extent of Ammonia Ionization in Freshwater,  
W85-00895 1802 2K

Phosphorus Release from the Sediments of Flaming Gorge Reservoir, Wyoming, U.S.A.,  
W85-05630 1810 2H

**MESZAROS, E.**  
Composition and Acidity of Precipitation in Hungary,  
W85-03291 1807 5B

**METCALF, J. L.**  
Aquatic Leeches (*Hirudinea*) as Bioindicators of Organic Chemical Contaminants in Freshwater Ecosystems,  
W85-01958 1804 5A

**METCALF, T. G.**  
Isolation of Enteroviruses from Water, Suspended Solids, and Sediments from Galveston Bay: Survival of Poliovirus and Rotavirus Adsorbed to Sediments,  
W85-02599 1805 5A

**METCALFE, J. L.**  
Uptake of Cadmium by Eggs and Alevins of Atlantic Salmon (*Salmo salar*) as Influenced by Acidic Conditions,  
W85-05012 1810 5C

## AUTHOR INDEX

MIHURSKY, J. A.

**METELEV, V. V.**  
Technique for Phosphororganic Insecticide Detection in Water and Hydrobiota (Metod Obnaruzheniya Fosfororganicheskikh Insektitsidov v Vode i Gidrobiontakh),  
W85-06485 1812 5A

**METHANIS, T.**  
Real-Time Flood Forecasting Technique,  
W85-03708 1807 4A

**METNER, D. A.**  
Bioaccumulation of Some Forestry Pesticides in Fish and Aquatic Plants,  
W85-06772 1812 5C

**METZGER, J. F.**  
Design-Oriented Reverse Osmosis Model,  
W85-05293 1810 5D

**MEYBECK, M.**  
Carbon, Nitrogen, and Phosphorus Transport by World Rivers,  
W85-01299 1803 2K

Changes in the Quality of River Oise Water During Retention in the Storage Basin at Mery (France) (Evolution de la Qualite de la Riviere Oise lors de sa Retention dans le Bassin de 'Storage' de Mery (France)),  
W85-05635 1810 2H

Comparative Study of Mercury Contamination in the Tagus Estuary (Portugal) and Major French Estuaries (Gironde, Loire, Rhone),  
W85-06834 1812 5B

Evolution of Algal and Detrital Components in the Particulate Organic Carbon of Three Rivers from the Bassin Parisien (Evolution du Carbone Organique Particulaire 'algal' et 'detritique' dans trois rivieres du Bassin Parisien),  
W85-00630 1802 2H

Geographical Variability in the Natural Chemical Composition of Running Waters (Variabilite Geographique de la Composition Chimique Naturelle des eaux Courantes),  
W85-05657 1810 2K

**MEYER, E. L.**  
Process Design Manual, Land Treatment of Municipal Wastewater,  
W85-05194 1810 5D

**MEYER, G. E.**  
Crop Moisture Stress Analysis Using Computer-Controlled Environmental Chambers and Simulated Weather Sequences,  
W85-06097 1811 2I

**MEYER, J. L.**  
Effects of Watershed Disturbance on Dissolved Organic Carbon Dynamics of a Stream,  
W85-00255 1801 5B

Influence of Hydrologic Conditions and Successional State on Dissolved Organic Carbon Export from Forested Watersheds,  
W85-00254 1801 5B

Salinization of Organic Soils in the Sacramento-San Joaquin Delta of California,  
W85-05927 1811 3F

Salt Tolerance of Corn in the Sacramento-San Joaquin Delta of California,  
W85-05925 1811 3C

**MEYER, J. S.**  
Constituent Bioconcentration in Rainbow Trout Exposed to a Complex Chemical Mixture,  
W85-02416 1805 5B

**MEYER, I. D.**  
Laboratory Study of Rill Hydraulics: I. Velocity Relationships,  
W85-03387 1807 2E

Laboratory Study of Rill Hydraulics: II. Shear Stress Relationships,  
W85-03388 1807 2J

Susceptibility of Agricultural Soils to Interrill Erosion,  
W85-02876 1806 2J

**MEYER, N.**  
Isolation of Aeromonas spp. from an Unchlorinated Domestic Water Supply,  
W85-02597 1805 5F

**MEYER, R.**  
Rationalization of the Burkersdorf Drinking-Water-Treatment Facility (Rationalisierung der Trinkwasserbereitungsanlage Burkersdorf),  
W85-04324 1808 5F

**MEYERHOF, G. G.**  
Pile Capacity for Eccentric Inclined Load in Clay,  
W85-03422 1807 8D

**MEYERS, W. E.**  
Rapid, Sensitive, Gas Chromatographic Determination of Diethyl Malonate and Diethyl Succinate in Water Facilitated by Sorbent-Tube Preconcentration,  
W85-00167 1801 5A

**MEYERSON, A. L.**  
Tidal and Seasonal Variations of Sulfate Ion in a New Jersey Marsh System,  
W85-01848 1804 5B

**MIAOU, S.-P.**  
Transfer Function Models of Daily Urban Water Use,  
W85-06496 1812 6D

**MICHAEL, J. L.**  
Determination of Picloram in Soil and Water by Reversed-Phase Liquid Chromatography,  
W85-02204 1805 5A

**MICHAELIS, F. B.**  
Possible Effects of Forestry on Inland Waters of Tasmania; A Review,  
W85-07145 1812 4C

**MICHAELIS, J.**  
Kinetic Factors of CaCO<sub>3</sub>-Precipitation and the Partitioning of 12C and 13C. Studies at the Waterfalls of Guterstein and Urach (Schwabische Alb) (Kinetische Faktoren der CaCO<sub>3</sub>-Abscheidung und der Fraktionierung von 12C und 13C. Untersuchungen an den Wasserfällen von Guterstein und Urach (Schwabische Alb)),  
W85-01662 1804 1B

**MICHAIL, M.**  
Soil-Aquifer Treatment - A New Approach to an Old Method of Wastewater Reuse,  
W85-02573 1805 5D

**MICHALI, A. J.**  
Steady Flow Calculations for Cutoff Wall Depth Variation,  
W85-02258 1805 8D

**MICHAUD, J. E.**  
Soft Rot Erwinia Bacteria in Surface and Underground Waters in Southern Scotland and in Colorado, United States,  
W85-03297 1807 5B

**MICHAUD, S.**  
Detection of False-Positives Among Total and Fecal Coliform Counts by Factorial Analysis of Correspondence,  
W85-04265 1808 5A

**MICHEL, B.**  
Comparison of Field Data with Theories on Ice Cover Progression in Large Rivers,  
W85-05458 1810 2C

**MICHEL, J.**  
Effect of Lock-Chamber Water Depth and Water-Saving Basins on Lock-Operating Time (Influence du mouillage dans le sas d'une écluse et de la présence de bassins d'épargne sur la dureté d'éclusage),  
W85-00373 1801 8A

Lock-Filling and Emptying Waves and Level Variations in Canal Reaches (Ondes et marnages dans les biefs dus au remplissage et à la vidange des écluses),  
W85-00374 1801 8A

**MICHNOWICZ, C. J.**  
Effects of pH on Toxicity of As, Cr, Cu, Ni, and Zn to *Selenatina capricornutum* Printz,  
W85-04066 1808 5C

**MICKA, J. G.**  
Wet Deposition Monitoring - Effect of Sampling Period,  
W85-05773 1810 5A

**MICKAM, J. T.**  
Surface and Borehole Geophysical Methods in Ground Water Investigations,  
W85-03189 1806 2F

**MICKLEBURGH, S.**  
Spatial Uptake of Dissolved Organic Carbon in River Beds,  
W85-01009 1802 5B

**MICKLIN, P. P.**  
Vast Diversion of Soviet River,  
W85-05767 1810 6G

**MIDDLEBROOKS, C.**  
Design Manual, Municipal Wastewater Stabilization Ponds,  
W85-05133 1810 5D

**MIDDLEBROOKS, E. J.**  
Design Manual, Municipal Wastewater Stabilization Ponds,  
W85-05133 1810 5D

Survey of Problems with Reverse Osmosis Water Treatment,  
W85-02400 1805 5F

**MIDDLETON, P.**  
Acid Rain and Drinking Water Degradation,  
W85-06286 1812 5B

**MIDOGOHCHI, S.**  
Behavior of Cadmium in Short-Necked Clam,  
W85-05686 1810 5C

**MIELEWCZYK, S.**  
Quantitative Investigations on Odonata, Heteroptera and Coleoptera in a Drainage Channel near the Village of Turew (Poznan Region),  
W85-02523 1805 5B

**MIELKE, L. N.**  
Leaching of Atrazine in the Root Zone of an Alluvial Soil in Nebraska,  
W85-03851 1808 5B

Soil Physical Characteristics of Reduced Tillage in a Wheat-Fallow System,  
W85-06078 1811 2G

Water Quality from Erosion Control Structures in Nebraska,  
W85-06716 1812 2J

**MIETTINEN, V.**  
Removal of Organic and Toxic Substances From Debarking and Kraft Pulp Bleaching Effluents by Activated Sludge Treatment,  
W85-05061 1810 5D

**MIHAIL, D.**  
Romania Gives Priority to Embankment Dams,  
W85-05817 1810 8A

**MIHURSKY, J. A.**  
Factors Affecting Trace Metal Accumulation by Estuarine Oyster *Crassostrea virginica*,  
W85-06878 1812 5A

## AUTHOR INDEX

**MIKASHVILI, YU. N.**

**MIKASHVILI, YU. N.**  
Risk of Damage and Failure of Earth Dams,  
W85-04430 1809 8D

**MIKELADZE, G. T.**  
Determination of Certain Rheological Characteristics of Concrete Mixes by Shear Testing,  
W85-04425 1809 8F

**MIKHAILOV, I. E.**  
Use of Equalizing Racks in the Outlet Sections of Draft Tubes of Hydroelectric and Pumped-Storage Stations,  
W85-05823 1810 8C

**MIKHAILOVSKII, YU. A.**  
Production-Destruction Processes in the Budak Liman,  
W85-04125 1808 2L

**MIKHALEV, M. A.**  
Calculation of Stone Size in Riprap Bank Protection,  
W85-01146 1803 8A

**MIKHALEVA, N. I.**  
Toxicity of Condensate from Polyester II-520 Production for *Daphnia magna* Straus and Its Effect on Self-Purification (Toksichnost' Kondensata ot Proizvodstva Poliefira P-520 Diya *Daphnia magna* Straus i Ego Vliyanie na Protess Samoochishcheniya),  
W85-06461 1812 5C

**MIKLAS, J.**  
Distribution and Activity of Bacteria in the Headwaters of the Rhode River Estuary, Maryland, USA,  
W85-03237 1807 2L

**MIKLAS, M. P. JR.**  
Assessment of Fluid Control Liner Installation Procedures,  
W85-05250 1810 5D

**MIKOS, M.**  
Heavy Metals in the Aquatic Environment of Some Water Bodies of the Lublin Coal Basin,  
W85-00232 1801 5B

**MIKOTS, L. M.**  
Ecological Aspects of the Design and Operation of Conduits of Hydroelectric Schemes,  
W85-05986 1811 5G

**MIL'KO, A. A.**  
Role of Mycoflora of the Volga and Some Northern Water Bodies in Processes of Self-Purification and Bioindication of Waters,  
W85-05156 1810 5A

**MILAS, S.**  
Population Crisis and Desertification in the Sudano-Sahelian Region,  
W85-03204 1806 4D

**MILBRINK, G.**  
Characteristic Deformities in Tubificid Oligochaetes Inhabiting Polluted Bays of Lake Vanern, Southern Sweden,  
W85-00985 1802 5C

**MILBURN, B.**  
Case Study, Potable Water Reservoir, Tuktoyaktuk, Northwest Territories,  
W85-04927 1809 6A

**MILDE, G.**  
Water Conservation in the Northwest Territories - Public Education and Awareness Program,  
W85-04920 1809 3D

**MILDE, G.**  
Interactions of Halogenated Hydrocarbons with Soils,  
W85-03287 1807 5B

**MILES, C. J.**

Determination of Aldicarb and its Derivatives in Groundwaters by High-Performance Liquid Chromatography with UV Detection,  
W85-01748 1804 5A

**MILES, J.**

Surface Waves in Basins of Variable Depth,  
W85-07085 1812 2H

**MILES, M. G.**

Formation of Stable Organic Chloramines During the Aqueous Chlorination of Cytosine and 5-Methylcytosine,  
W85-01726 1804 5F

**MILFORD, S. N.**

Eulerian-Lagrangian Solution of the Convection-Dispersion Equation in Natural Coordinates,  
W85-02162 1804 1B

**MILKI, R.**

Change in Quality of Thermal Groundwater From a Unique Resource in Lebanon,  
W85-01673 1804 2F

**MILLAN-NUNEZ, R.**

Effects of Physical Phenomena on the Distribution of Nutrients and Phytoplankton Productivity in a Coastal Lagoon,  
W85-00652 1802 2L

**MILLER, A. C.**

Changes in the Naiad Fauna of the Cumberland River below Lake Cumberland in Central Kentucky,  
W85-01921 1804 6G

**MILLER, C. A.**

Mississippi Deltaic Wetland Survival: Sedimentation Versus Coastal Submergence,  
W85-00221 1801 2L

**MILLER, C. H. JR.**

Assessment of Maternal Toxicity, Embryotoxicity and Teratogenic Potential of Sodium Chlorite in Sprague-Dawley Rats,  
W85-01201 1803 5F

**MILLER, C. T.**

Modeling Organic Contaminant Partitioning in Ground-Water Systems,  
W85-02692 1805 5B

**MILLER, D. C.**

Effects of Copper and Cadmium on Growth, Swimming and Predator Avoidance in *Eurytemora affinis* (Copepoda),  
W85-01900 1804 5C

Effects of Sediment Transport on Deposit Feeding: Scaling Arguments,  
W85-03875 1808 2J

**MILLER, D. E.**

Hydrology of Carbonate Terrane - Niangua, Osage Fork, and Grandglaize Basins, Missouri,  
W85-00582 1802 2F

**MILLER, D. J.**

Long-Distance, High-Pressure Water Supply System for Bonanza Power Plant,  
W85-05328 1810 8C

**MILLER, F. C.**

Materials Balance in the Composting of Wastewater Sludge as Affected by Process Control Strategy,  
W85-07040 1812 5E

**MILLER, G. C.**

Dynamics of Pollutant Photoreactions in the Hydrosphere,  
W85-03281 1807 5B

**MILLER, H.**

Managing Water Resources in the New Orleans Area,  
W85-02581 1805 4A

**MILLER, H. G.**

Forest Growth as a Possible Cause of Soil and Water Acidification: An Examination of the Concepts,  
W85-01452 1803 5B

**MILLER, H. P.**

Numerical Three-Dimensional Free Surface Circulation Model for the South Biscayne Bay, Florida,  
W85-04016 1808 2L

**MILLER, J. D.**

Forest Growth as a Possible Cause of Soil and Water Acidification: An Examination of the Concepts,  
W85-01452 1803 5B

**MILLER, J. E.**

Basic Concepts of Kinematic-Wave Models,  
W85-02035 1804 2A

**MILLER, J. F.**

Probable Maximum Precipitation and Snowmelt Criteria for Southeast Alaska,  
W85-00056 1801 2C

Probable Maximum Precipitation Estimates - United States Between the Continental Divide and the 103rd Meridian,  
W85-04226 1808 2B

Water Available for Runoff for 1 to 15 Days Duration and Return Periods of 2 to 100 Years for Selected Agricultural Regions in the Northwest United States,  
W85-05363 1810 2B

**MILLER, J. L.**

Drinking Water Supplies, Protection Through Watershed Management,  
W85-06934 1812 5G

**MILLER, J. M.**

Composition of Precipitation in Remote Areas of the World,  
W85-00514 1802 2K

Distribution of 137-Cs in Surface Intertidal Sediments from the Solway Firth,  
W85-00201 1801 5B

**MILLER, J. W.**

Old Water-New Water: Setting Equitable Water Rates for Suburban Customers,  
W85-03612 1807 6C

**MILLER, K. G.**

Automated Iodometric Method for Determination of Trace Chlorate Ion Using Flow Injection Analysis,  
W85-05519 1810 5A

**MILLER, L.**

Interactive Computer Modeling for Policy Analysis: The Flood Hazard Problem,  
W85-05490 1810 6A

**MILLER, L. W.**

Decline of Striped Bass in the Sacramento-San Joaquin Estuary, California,  
W85-06403 1812 5C

**MILLER, M. C.**

Discovery of Permanent Amazon Lakes and Hydraulic Disturbance in the Upper Amazon Basin,  
W85-04307 1808 2H

**MILLER, M. H.**

Reaction of Fertilizer and Liquid Manure Phosphorus with Soil Aggregates and Sediment Phosphorus Enrichment,  
W85-06722 1812 5E

**MILLER, N.**

Predicting Hydrologic Effects of Urbanization by Using Soil Conservation Service Methods,  
W85-04332 1808 4C

## AUTHOR INDEX

MINSHALL, G. W.

**MILLER, R. A.**  
Guide to the Selection of Materials for Monitoring Well Well Construction and Ground-Water Sampling,  
W85-05350 1810 7B

**MILLER, R. D.**  
Exploration of a Rigid Ice Model of Frost Heave,  
W85-05791 1810 2C

Fate of Contaminants During Treatment of H-Coal Process Wastewaters,  
W85-04878 1809 5D

**MILLER, R. G.**  
Influence of the Time of Acidification after Sample Collection on the Preservation of Drinking Water for Lead Determination,  
W85-07088 1812 5A

**MILLER, R. H.**  
Factors Affecting the Volatilization of Ammonia from Land Applied Sewage Sludges,  
W85-05386 1810 5E

**MILLER, R. T.**  
Anisotropy in the Ironton and Galesville Sandstones Near a Thermal-Energy-Storage Well, St. Paul, Minnesota,  
W85-02684 1805 2F

**MILLER, R. W.**  
Assessment of Aquatic Resources Altered or at Risk From Acidic Deposition,  
W85-00936 1802 5B

**MILLER, S. W.**  
Response of Methane Fermentation to Continuous Addition of Selected Industrial Toxicants,  
W85-05288 1810 5D

**MILLER, T.**  
Hydrology and Hydrochemistry of the Caves Branch Karst, Belize,  
W85-00006 1801 2F

**MILLER, T. K.**  
System Model of Stream-Channel Shape and Size,  
W85-01132 1803 2E

**MILLER, W.**  
Using Heat Capacity Mapping Mission (HCMM) Data to Assess Lake Water Quality,  
W85-02975 1806 5A

**MILLER, W. L.**  
Public Supply Water Use, Palm Beach County, Florida, 1978-82,  
W85-03916 1808 6D

**MILLER, W. W.**  
Agricultural Water Pollution Control: An Interdisciplinary Approach,  
W85-05067 1810 6B

Water Quality of Irrigation and Surface Return Flows from Flood-Irrigated Pasture and Alfalfa Hay,  
W85-03856 1808 5B

**MILLERD, F. W.**  
Role of Pricing in Managing the Demand for Water,  
W85-04686 1809 6A

**MILLERO, F. J.**  
Conductivity-Density-Salinity-Chlorinity Relationships for Estuarine Waters,  
W85-03878 1808 2L

Effect of Ionic Interactions on the Oxidation of Metals in Natural Waters,  
W85-04761 1809 2K

Toxicity of Copper to the Marine Bacterium *Vibrio alginolyticus*,  
W85-05743 1810 5C

**MILLETTE, J. A.**  
Effect of Water Table Depth in Organic Soil on Subsidence and Swelling,  
W85-00156 1801 2G

**MILLETTE, J. R.**  
Asbestos in Water Supplies of the United States,  
W85-02703 1806 5F

Epidemiology Study of the Use of Asbestos-Cement Pipe for the Distribution of Drinking Water in Escambia County, Florida,  
W85-02709 1806 5C

Use of Quantitative Analysis of Urine to Assess Exposure to Asbestos Fibers in Drinking Water in the Puget Sound Region,  
W85-02712 1806 5A

**MILLICAN, T.**  
Checklist of the Species of Fishes in Lake Maurepas, Louisiana,  
W85-06488 1812 2H

**MILLIMAN, J. D.**  
Tidal Phase Control of Sediment Discharge from the Yangtze River,  
W85-02292 1805 2J

Transfer of Particulate Organic Carbon and Nitrogen from the Yangtze River to the Ocean,  
W85-02467 1805 2J

**MILLIMAN, J. W.**  
Needed Economic Framework for Flood Plain Management,  
W85-03707 1807 4A

**MILLINGTON, D. S.**  
Reaction Products of Aquatic Humic Substances with Chlorine,  
W85-01206 1803 5F

**MILLINGTON, P.**  
Case for Automated Water Management,  
W85-02130 1804 6A

**MILLOT, G.**  
Origin of High Fluorine Contents in Groundwaters from Paleocene Aquifer of Mbour Area (Senegal). Role of the Magnesium Ion (Origine des fortes teneurs en fluor des eaux souterraines de l'aquifère paleocène de la région de Mbour (Senegal). Role de l'ion magnésium),  
W85-00947 1802 2H

**MILLS, A. L.**  
Sulfate Reduction in Freshwater Sediments Receiving Acid Mine Drainage,  
W85-04263 1808 5B

**MILLS, G. L.**  
Urban Runoff as a Source of Polycyclic Aromatic Hydrocarbons to Coastal Waters,  
W85-02108 1804 5B

**MILLS, J. C.**  
Modeling Fluid Flow in Selective Placement of Toxic Mine Spoil,  
W85-06839 1812 5B

**MILLS, K. H.**  
Fish Population Responses to Experimental Acidification of a Small Ontario Lake,  
W85-04205 1808 5C

Responses of Lake Whitefish (*Coregonus clupeaformis*) to Fertilization of Lake 226, the Experimental Lakes Area,  
W85-04840 1809 8I

**MILLS, S. V.**  
Mechanics of Mudflows,  
W85-01816 1804 8B

**MILLS, W. B.**  
Screening Methods for Synfuel Chemicals in Aquatic Environments,  
W85-02812 1806 5A

**MILLS, W. C.**  
Pesticide Pollution Probabilities,  
W85-06075 1811 5B

**MILLS, W. L.**  
Evaluation of Carbamate Toxicity: Acute Toxicity in a Culture of *Paramecium multimicronucleatum* Upon Exposure to Aldicarb, Carbaryl, and Mexacarbate as Measured by Warburg Respirometry and Acute Plate Assay,  
W85-06168 1811 5C

**MILLY, P. C. D.**  
Linear Analysis of Thermal Effects on Evaporation From Soil,  
W85-02364 1805 2G

Simulation Analysis of Thermal Effects on Evaporation From Soil,  
W85-02365 1805 2G

Stability of the Green-Ampt Profile in a Delta Function Soil,  
W85-05804 1810 2G

**MILNER, C. R.**  
Bacterioplankton in an Urban River: The Effects of a Metal-Bearing Tributary,  
W85-02912 1806 5C

**MILTNER, R. J.**  
Pilot-Plant Studies of Slow-Rate Filtration,  
W85-04408 1808 5F

**MIMIKOU, M.**  
Real-Time Flood Forecasting Technique,  
W85-03708 1807 4A

**MIN, X.**  
Relationships Between Electrical Conductivity, Chlorinity and Density of Coastal Waters of China (in Chinese),  
W85-02382 1805 2L

**MINEAR, R. A.**  
Determination of Bromide in Natural Waters by Ion Chromatography Using a Concentrator Column,  
W85-02436 1805 5A

**MINERVINI, W. P.**  
Lower Cuckels Brook Water Body Survey and Use Attainability Analysis,  
W85-06361 1812 5C

**MING, E. G.**  
Water Resources Data, Alabama, Water Year 1982,  
W85-01939 1804 2E

**MINGELGRIN, U.**  
Sorption of Organic Substances by Soils and Sediments,  
W85-01442 1803 5B

**MININNI, G.**  
Sludge Dewatering in a Conventional Plant with Phosphorus Removal - I; Analysis of Additional Costs,  
W85-04970 1810 5D

Sludge Dewatering in a Conventional Plant with Phosphorus Removal - II; Study on Centrifuge and Filter-Press Performance,  
W85-04971 1810 5D

**MINSHAAL, G. W.**  
Stream Ecosystem Theory,  
W85-05662 1810 2E

**MINSHAL, G. W.**  
Species Richness in Streams of Different Size from the Same Drainage Basin,  
W85-04665 1809 2H

**MINSHALL, G. W.**  
In Situ Nitrogen Enrichment Experiments in Two Idaho (U.S.A.) Streams,  
W85-06284 1812 5C

## AUTHOR INDEX

MIODUSZEWSKI, D.

Waste Hauler/Disposer Meets Pretreatment Guidelines,  
W85-05260 1810 5F

MIRANDA, L. E.

Effects of Water Level Manipulation on Abundance, Mortality, and Growth of Young-of-Year Largemouth Bass in West Point Reservoir, Alabama-Georgia,  
W85-02375 1805 6G

MIRCHANDANI, I.

Appropriate Water Supply Technology for Developing Countries,  
W85-01981 1804 5F

MIRONENKO, A. P.

Parabolic Canal Design and Analysis,  
W85-01515 1803 8A

MIROSHINICHENKO, M. P.

Trophic Structure of Biocenoses in the Tsimlyanskoe Reservoir Benthos (Troficheskaya Struktura Biotzenozov Bentosa Tsimlyanskogo Bodkhranilishcha),  
W85-06467 1812 2H

MIRSCHENZ, J.

New Main Lock and Dam Krotzenburg (Die neue Main-Staustufe Krotzenburg),  
W85-03264 1807 8A

MIRZAEV, YA. P.

Concreting the Diversion Dewatering Outlets of the Zeya Hydroelectric Station,  
W85-00428 1801 8F

MISDORP, R.

Shore Protection - A Tension Field Between Two Types of Conservation,  
W85-00562 1802 8A

MISHRA, N.

Effect of Sewage with Special Reference to Aquatic Insects in the River Kshipra (India),  
W85-05029 1810 5C

MISHRA, R. R.

Dry Weight Loss and Changes in Chemical Composition of Pine (*Pinus kesiya Royle*) Needles and Teak (*Tectona grandis* L.) Leaves During Processing in a Freshwater Lake,  
W85-00411 1801 2K

MISHRA, U. C.

Wet Deposition of Cadmium, Lead and Copper at Deonar (Bombay) and its Relationship with Rainfall,  
W85-06888 1812 5B

MISHUEV, A. V.

Discontinuous Wave on Stretches of an Abrupt Expansion of a Canal,  
W85-04424 1809 8B

Reflection of a Surge from a Vertical Wall,  
W85-00454 1801 2E

MISRA, V.

Water Flea (*Daphnia magna*) as a Sensitive Indicator for the Assessment of Toxicity of Synthetic Detergents,  
W85-02943 1806 5C

MISSELWITZ, J.

Reservoir Murg in Gaggenau (Murgstau Gaggenau),  
W85-03268 1807 8A

MISZTAI, M.

Preliminary Estimate of Nutrient Run-off into Two Lakes in the Leczyznsko-Wlodawske Lake District Throughout a Year,  
W85-02508 1805 5B

MITAMURA, O.

Studies on a Freshwater Red Tide in Lake Biwa - I. Changes in the Distribution of Phytoplankton and Nutrients (in Japanese),  
W85-00541 1802 5C

MITCHELL, B.

Floodplain Policy and Practice in the Credit River Watershed, Ontario,  
W85-04587 1809 6F

River Basin Planning: Problems, Opportunities and Implications for Ontario Conservation Authorities,  
W85-04572 1809 6A

MITCHELL, C. P.

Limnological Changes in a Small Lake Stocked with Grass Carp,  
W85-03071 1806 4A

MITCHELL, D. T.

Disposal of Household Wastewater in Soils of High Stone Content (1981-1983),  
W85-01815 1804 5D

MITCHELL, M. J.

Sulfur Distribution in Lake Sediment Profiles as an Index of Historical Depositional Patterns,  
W85-05865 1811 5B

MITCHELL, P.

Distribution of Benthic Invertebrates Along a Disturbed Section of the La Trobe River, Victoria: an Analysis Based on Numerical Classification,  
W85-01165 1803 2

MITCHELL, P. D.

Effects of Regulated Water Deficits on Pear Tree Growth, Flowering, Fruit Growth, and Yield,  
W85-06204 1812 3F

MITCHELL, R. J.

Hydraulic Stabilization of Earth Structures,  
W85-03419 1807 8D

MITCHELL, W. R.

Microbial Degradation of 2,4,6-Trichloroaniline in Aquatic Samples and Laboratory Enrichment Cultures,  
W85-02120 1804 5B

MITTELMAN, M. W.

Copper-Binding Characteristics of Exopolymers from a Freshwater-Sediment Bacterium,  
W85-06144 1811 2H

MITTEN, H. T.

Ground Water in the Fresno Area, California-A Progress Report,  
W85-03954 1808 2F

MITIWALLI, H.

Chlorine as an Algaecide in a Conventional Water Treatment Plant,  
W85-01749 1804 5F

MITYUSHINA, I. M.

Seepage Regime of the Hydraulic-Fill Dam of the Mingecha Hydropower Development,  
W85-03577 1807 8D

MIURA, H.

Quantification of Accumulated Loads on Road Surfaces and Their Runoff Characteristics,  
W85-01421 1803 5B

MIX, M. C.

Persistence and Fate of Polynuclear Aromatic Hydrocarbons Deposited on Slash Burn Sites in the Cascade Mountains and Coast Range of Oregon,  
W85-05109 1810 5B

MIYAMOTO, J.

Fate of Fenitrothion in Several Developmental Stages of the Killifish (*Oryzias latipes*),  
W85-02422 1805 5C

MIYAMOTO, S.

Model for Scheduling Pecan Irrigation with Microcomputers,  
W85-01193 1803 3F

Water Use, Growth and Rubber Yields of Four Guayule Selections as Related to Irrigation Regimes,  
W85-05166 1810 3F

MIYAZAKI, T.

Applicability of the Stable Isotope Method using  $^{13}\text{C}$  and  $^{15}\text{N}$  Simultaneously to the Estimation of Carbon and Nitrogen Assimilation in a Eutrophic, Freshwater Lake, Lake Nakamura, Japan,  
W85-06445 1812 2H

Uptake of Carbon and Inorganic Nitrogen in a Eutrophic Lake, Lake Nakamura, Japan, from Spring Through Summer,  
W85-06400 1812 2H

MIZUMURA, K.

Flow Analyses in Idealized Rubble-Mound Breakwater,  
W85-02271 1805 8B

Prediction of Combined Snowmelt and Rainfall Runoff,  
W85-05778 1810 2E

MILADEV, M.

Possibility of Treatment of Wastewater from Artificial Leather Production with the Help of Algae (Möglichkeiten der Nachreinigung von Abwassern aus der Kunstlederproduktion mit Hilfe von Algen),  
W85-06263 1812 5D

MOBLEY, M. C.

Accumulation of Cadmium from Contaminated Water and Sediment by the Shrimp *Callianassa australiensis*,  
W85-02538 1805 5C

Suspended Sediments and Nutrients in Water Ebbing from Seagrass-Covered and Denuded Tidal Mudflats in a Southern Australian Embayment,  
W85-04856 1809 2L

MODAK, D. P.

Studies of Toxic Effects of  $\text{Hg}(\text{II})$  on *Pistia stratiotes*,  
W85-06372 1812 5C

MOED, J. R.

Availability of Dissolved Iron from Tjeukemeer, The Netherlands, For Iron-Limited Growing *Scenedesmus quadricauda*,  
W85-04978 1810 2H

Size Classes of 'Dissolved' Nutrients in Shallow, Alkaline, Humic and Eutrophic Tjeukemeer, The Netherlands, as Fractionated by Ultrafiltration,  
W85-04550 1809 2K

MOENCH, A. F.

Double-Porosity Models for a Fissured Groundwater Reservoir with Fracture Skin,  
W85-02150 1804 2F

MOHAMMAD, F. S.

Effect of Drain Tube Openings on Drainage and Subirrigation,  
W85-04748 1809 4A

MOHAUPT, V.

Testing of a Complex Ecological Model for Shallow Water Bodies,  
W85-05603 1810 2H

MOHLENBERG, F.

Mercury Levels in Fish, Invertebrates and Sediment in a Recently Recorded Polluted Area (Nissum Broad, Western Limfjord, Denmark),  
W85-00801 1802 5B

MOHN, J.

Field Trial of Reverse Osmosis in the El Khanka Desert, Egypt,  
W85-03974 1808 3A

## AUTHOR INDEX

MOORE, I. D.

Field Trial of Reverse Osmosis in the El Khanka Desert, Egypt, W85-07093	1812 3A	MONAGHAN, B. A. Pilot Scale Investigation of Computerized Control of the Activated Sludge Process, W85-05333	1810 5D	MONTIJN, A. Release of Sediment-Phosphorus and the Influence of Algal Growth on This Process, W85-01761	1804 2H
MOHN, N. C. Minimizing Wastewater with Bottom Ash Recirculation Systems, W85-01232	1803 5D	MONAGHAN, G. W. Computerized Ground-Water Resources Information System, W85-05845	1810 2F	MONTZ, B. E. Ice Jam Prediction Model as a Tool in Floodplain Management, W85-05504	1810 2C
MOHSENINIA, H. Analyses of the Macro-drift from the Inlet-Rake Shutter to the Nuclear Power Plant of Wurgassen at the Upper Weser River (Untersuchungen über die Zusammensetzung des Rechengutes am KKW Wurgassen/Oberweser), W85-00971	1802 6G	MONBET, Y. Sedimentological and Biological Changes Associated with the Construction of the Oil Terminal of Antifer, France, W85-00563	1802 5C	MOODY, C. D. Water Quality of the Colorado River System: Historical Trends in Concentration Load, and Mass Fraction of Inorganic Solutes, W85-04942	1809 2E
MOIN, P. Numerical Simulation of Turbulent Flows, W85-05830	1810 2E	MONEIM, M. A. B. Nitrogen Fixation in the Sediment of Shallow Lake Balaton, a Reservoir and Fishponds, W85-02903	1806 2H	MOODY, R. L. DUVAS As a Real-Time, Field-Portable Wastewater Monitor for Phenolics, W85-01159	1803 7B
MOL, A. W. M. Ecological Types of Running Water Based on Stream Hydraulics in the Netherlands, W85-02504	1805 2E	MONIB, M. Interactions of the Molluscicide 'Bayluscide' with Development of Dinitrogen Fixers and Their N2-ase and Respiratory Activities in Water, W85-04058	1808 5C	MOOG, O. Effect of Sewage Removal on Lake Water Quality (Fuschlsee, Salzburg, Austria), W85-02525	1805 5C
MOLDENHAUER, W. C. Influence of Long-Term Tillage and Crop Rotation on Water Erosion, W85-00755	1802 5G	MONK, R. D. G. Improved Methods of Designing Filter Boxes, W85-02401	1805 5D	STREAM Phosphorus Exports from Prealpine Watersheds with Respect to Geology and Land Use, W85-04560	1809 5B
MOLDOFF, R. Co-ordinated Approach to Small Hydro Development, W85-06131	1811 6A	MONK, R. D. G. Real World Design: Appropriate Technology for Developing Nations, W85-00707	1802 6B	MOOLEY, D. A. Droughts over Peninsular India During 1861-1980 and Associated Circulation Features, W85-05082	1810 2B
MOLDOFSKY, M. Source of Deionized Water for High-Pressure Steam, W85-06061	1811 5F	MONKHOUSE, R. A. Groundwater Yields from Boreholes in the Midlands, W85-03800	1808 2F	MOOLMAN, J. H. Effect of Irrigation Practices in the Bree River Valley on the Salt Content of a Small River, W85-05928	1811 5B
MOLENAAR, D. Occurrence, Quality, and Use of Ground Water in Orcas, San Juan, Lopez, and Shaw Islands, San Juan County, Washington, W85-02043	1804 7C	MONOSOWSKI, E. Environmental Impact of Dams, W85-06133	1811 6G	MOORE, A. Air Stripping of Trace Volatile Organics from Wastewater, W85-05291	1810 5D
MOLINSKI, M. Fish Production in Oued Sebaou, A Seasonal River in North Algeria, W85-04318	1808 2H	MONTEIRO, R. C. Use and Re-Use of Itaipu's Diversion Gates, Part Two, W85-01553	1803 8C	MOORE, A. T. Pilot Scale Investigations on the Removal of Volatile Organics and Phthalates from Electronics Manufacturing Wastewater, W85-05442	1810 5D
MOLL, R. A. Hypothesis Relating Trophic Status and Subsurface Chlorophyll Maxima of Lakes, W85-00763	1802 2H	MONTGOMERY, E. L. Ground Water Development for Mineral Industry in Arid Zones of the Andean Highlands, South America, W85-05045	1810 2F	MOORE, C. G. BASIC Program for the Investigation of Species Diversity, W85-04513	1809 7C
MOLLAND, O. Testing of Biological (Composting) Toilets and Practical Experiences in Norway, W85-05207	1810 5D	MONTGOMERY, H. A. C. Effects of the Recharge on Sewage Effluents Upon the Quality of Chalk Groundwater, W85-04462	1809 5C	MOORE, D. C. Underwater Experiments on the Effects of Sewage Sludge on a Marine Ecosystem, W85-01628	1803 5C
MOLLER, F.-W. Friedrichroda Wastewater Treatment Facility - Results of an Experiment (Klaranlage Friedrichroda - Ergebnisse eines Experiments), W85-01884	1804 5D	Growth of Cladophora glomerata in a River Receiving Sewage Effluent, W85-01723	1804 5C	MOORE, D. W. Chemical Cleaning Waste Disposal by Landfarming, W85-07097	1812 5E
MOLLER, H. Trace Metal and PCB Content of Mussels ( <i>Mytilus edulis</i> ) from the Southwestern Baltic Sea, W85-04902	1809 5B	MONTGOMERY, J. E. Standing Requirement under the Wyoming Forfeiture Statute, W85-04180	1808 6E	MOORE, G. K. Application of Digital Mapping Technology to the Display of Hydrologic Information, a Proof-of-Concept Test in the Fox-Wolf River Basin, Wisconsin, W85-00586	1802 7A
MOLOKOV, I. A. New Problems and Methods of Engineering-Geological Evaluation of Foundations of Large Dams, W85-00477	1801 8A	MONTGOMERY, R. H. Phosphorus Dynamics in an Arkansas Reservoir: The Importance of Seasonal Loading and Internal Recycling, W85-06964	1812 2H	MOORE, G. S. Health Effects Among Newborns After Prenatal Exposure to ClO <sub>2</sub> -Disinfected Drinking Water, W85-01203	1803 5F
MOLZ, F. J. Analysis of Dispersion in a Stratified Aquifer, W85-03160	1806 2F	Predicting Variability in a Lake Ontario Phosphorous Model, W85-01758	1804 2H	Lack of Nephrotoxicity in the Rat by Sodium Chlorite, a Possible Byproduct of Chlorine Dioxide Disinfection in Drinking Water, W85-02119	1804 5F
Field Determination of Aquifer Thermal Energy Storage Parameters, W85-00355	1801 2F	MONTGOMERY, R. L. Techniques for Reducing Contaminant Release During Dredging Operations, W85-00573	1802 5G	Toxicological Effects of Chlorite in the Mouse, W85-01202	1803 5F
MOMMAERTS, J. P. Simulation of Ecological Impacts of the New Outer-Harbour Development in Zeebrugge, W85-00565	1802 6G	MONTI, M. Pumped-Storage: Peak Generation or Operating Reserve, W85-02673	1805 8A	MOORE, I. D. Hydrology and Sedimentology Watershed Model. Part I: Operational Format and Hydrologic Component, W85-04735	1809 2A

## AUTHOR INDEX

**MOORE, I. D.**

Hydrology and Sedimentology Watershed Model. Part II: Sedimentology Component, W85-04736 1809 2A

Modeling Subsurface Stormflow on Steeply Sloping Forested Watersheds, W85-03987 1808 2A

**MOORE, J.**  
Zooplankton and Potential Fish Production in Lake Ontario, W85-02999 1806 2H

**MOORE, J. A.**  
Observations on the Phytoplankton of the Freshwater Thames; I. The Environment, Floristic Composition and Distribution of the Macrophytes (Principally Macroalgae), W85-06398 1812 2H

**MOORE, J. C.**  
Acute Toxicity, Bioconcentration, and Persistence of AC 222,705, Benthiocarb, Chlorpyrifos, Fenvalerate, Methyl Parathion, and Permethrin in the Estuarine Environment, W85-00163 1801 5C

Determination of Fenthion Residues in Samples of Marine Biota and Seawater from Laboratory Exposures and Field Applications, W85-06581 1812 5A

**MOORE, J. C. III**  
Chicago Experience in Large-Scale Land Application, W85-05058 1810 5E

**MOORE, J. M.**  
Comparisons of Devices for Aerating Inflow of Pipes, W85-00946 1802 5F

**MOORE, K.**  
Analysis of the Process of Retention of Organic Matter in Stream Ecosystems, W85-05664 1810 2J

**MOORE, K. A.**  
Distribution and Abundance of Submerged Aquatic Vegetation in Chesapeake Bay: An Historical Perspective, W85-05709 1810 5C

**MOORE, M. A.**  
Report of the Annual Yield of the Arkansas River Basin for the Arkansas River Basin Compact, Arkansas-Oklahoma, 1983 Water Year, W85-03951 1808 2E

**MOORE, M. D.**  
Relationship Between Atmospheric Nitrogen Deposition and the Stream Nitrogen Profile, W85-03084 1806 5B

**MOORE, M. N.**  
Responses of the Mussel *Mytilus edulis* to Copper and Phenanthrene: Interactive Effects, W85-05886 1811 5C

**MOORE, M. R.**  
Lead Hazard Controlled in Scottish Water Systems, W85-02402 1805 5B

Lead in Water, Infant Diet and Blood: the Glasgow Duplicate Diet Study, W85-06548 1812 5C

**MOORE, N. H.**  
Physical Hydrology of a Lagoon System on the Pacific Coast of Mexico, W85-03499 1807 2L

**MOORE, P. T.**  
Design and Development of the Flood Storage and Amenity Reservoirs of the Rother Valley Country Park, W85-03883 1808 4A

**MOORE, R. D.**  
Controls on Advective Snowmelt in a Maritime Alpine Basin, W85-01042 1802 2C

**MOORE, W. S.**  
226Ra and 228Ra in the Mixing Zones of the Pee Dee River-Winyah Bay, Yangtze River and Delaware Bay Estuaries, W85-01912 1804 2L

Microbially Mediated Manganese Oxidation in a Freshwater Lake, W85-01598 1803 2H

Radium Fluxes from a Salt Marsh, W85-05468 1810 2L

**MOOREHEAD, W. B.**  
Ethylene Dichloride/Ethylene Glycol Spill in a Major Water Resource in British Columbia, W85-06610 1812 5G

**MORRHOUSE, J. L.**  
Groundwater Protection: A Contrast in State Style, W85-05979 1811 5G

**MORAHAN, T.**  
Application of Television Borehole Logging to Ground Water Monitoring Programs, W85-03190 1806 2F

**MORAITOU-APOSTOLOPOULOU, M.**  
Effects of Four Heavy Metals on Survival and Hatching Rate of *Artemia salina* (L.), W85-04674 1809 5C

Toxicity of Chromium to the Marine Planktonic Copepod *Acartia clausi*, Giesbrecht, W85-01469 1803 5C

**MORALES-ALAMO, R.**  
Uptake of Kepone from Sediment Suspensions and Subsequent Loss by the Oyster *Crassostrea virginica*, W85-01897 1804 5B

**MORAN, P. J.**  
Water Quality Control and its Effect on the Concentration of Heavy Metals in Port Kembla Harbour, N.S.W., W85-02761 1806 5G

**MORAND, P.**  
Gated Weirs: Technological Developments and Automation (Les barrages mobiles. Evolution technologique et automatisation), W85-00377 1801 8C

**MORASSE, C.**  
Seasonal Variations of Phosphate Species in Wastewater, W85-02823 1806 5D

**MORAWSKA, B.**  
Effect of Water Temperature Elevation on Incipient and Cumulative Fecundity of Batch-Spawning Tench, *Tinca tinca* (L.), W85-04707 1809 8I

**MOREAU, D. H.**  
Drinking Water Supplies, Protection Through Watershed Management, W85-06934 1812 5G

**SAGE: A New Participant-Value Method for Environmental Assessment,** W85-04999 1810 6A

**MOREAU, G.**  
Influence of Experimental Acidification in a Lotic Environment of the Benthic Invertebrate Drift (Influence d'une Acidification Experimentale en Milieu Lotique sur la Derive des Invertébrés Benthiques), W85-05660 1810 5C

Short Term Response of a Northern Lotic Ecosystem to a Great Reduction in Flow (Reponse, a Court Terme, d'un Ecosystème Lotique Nordique à une Forte Réduction de Débit), W85-05658 1810 6G

**MOREAU, J.**  
Model for Rapid Growth Evaluation in Fishes: the Case of the Cyprinids of Some Large French Rivers, W85-05717 1810 2H

**MOREL, F. M. M.**  
Photoreductive Dissolution of Colloidal Iron Oxides in Natural Waters, W85-03057 1806 2K

**MOREL-SEYTOUX, H. J.**  
Application of a Physically-Based Distributed Parameter Model for Arid-Zone Surface-Groundwater Management, W85-03752 1807 4B

Design of a Physically-Based Distributed Parameter Model for Arid-Zone Surface-Groundwater Management, W85-03751 1807 2A

From Excess Infiltration to Aquifer Recharge: A Derivation Based on the Theory of Flow of Water in Unsaturated Soils, W85-02665 1805 2A

Technique of Reinitialization for Efficient Simulation of Large Aquifers Using the Discrete Kernel Approach, W85-03574 1807 2F

Two-Phase Numerical Model for Prediction of Infiltration: Applications to a Semi-Infinite Soil Column, W85-06515 1812 2G

**MORELLA, M. C.**  
Effect of Sludge Quality and Rate, Soil pH, and Time on Heavy Metal Residues in Leafy Vegetables, W85-05382 1810 5E

**MORETON, P. A.**  
Role of Sulphide in the Formation of Dimethyl Mercury in River and Estuary Sediments, W85-03240 1807 5B

**MORGAN, D.**  
Maintenance of Drinking Water Quality: The Essential Decisions, W85-04449 1809 5F

**MORGAN, D. R.**  
Effect of Clustering of Flood Peaks on a Flood Risk Analysis for the Red River, W85-06553 1812 2E

**MORGAN, E. L.**  
Automated Fish Respiratory Monitoring System for Stream Acidification Episode Assessment, W85-05629 1810 5A

Controlling Acidic-Toxic Metal Leachates from Southern Appalachian Construction Slopes: Mitigating Stream Damage, W85-06064 1811 5G

Toxicity of Wet Limestone Scrubber Sludges, Ash Pond Sludges and Effluent Wastes from a Combustion Process, W85-05274 1810 5D

**MORGAN, G. C.**  
Quantitative Analysis of Debris Torrent Hazards for Design of Remedial Measures, W85-05529 1810 2J

**MORGAN, J. M.**  
Calculating Effectiveness of Water Conservation Measures, W85-06021 1811 6F

How Much Water Can You Save With Conservation Measures, W85-05483 1810 3D

## AUTHOR INDEX

MOSLEY, M. P.

Investigation of the Carrying Capacity of the Monocacy River as a Scenic and Recreational Resource, Volume II. Characteristics and Interpretations of Selected Social and Environmental Considerations Important to the Monocacy River, W85-00606 1802 6G

MORGAN, M. D. Acidification of Headwater Streams in the New Jersey Pinelands: A Re-Evaluation, W85-03877 1808 5B

Comparison of Aquatic Species Composition and Diversity in Disturbed and Undisturbed Pinelands Waters, W85-00823 1802 5B

MORGAN, N. C. Ecological Survey of Standing Waters in North West Africa: I. Rapid Survey and Classification, W85-00121 1801 2L

Ecological Survey of Standing Waters in North West Africa: II. Site Descriptions for Tunisia and Algeria, W85-00122 1801 2H

Ecological Survey of Standing Waters in North West Africa: III. Site Descriptions for Morocco, W85-00123 1801 2H

MORGAN, R. J. Determination of the Evapotranspiration of E. regnans Forested Catchments Using Hydrological Measurements, W85-06669 1812 2D

MORGAN, W. D. Alaska Seafood Processing Industry, W85-05568 1810 5D

MORGENSEN, S. A. Status of the Black Bass Fishery in Lake Mead and a Program Toward Restoration and Enhancement, W85-04209 1808 8I

MORGUI, J. A. Phosphorus Compounds in the Sediment of the Sau Reservoir (Barcelona, NE Spain) Throughout its Twenty-year Existence, W85-05638 1810 2H

MORIARTY, F. Limitations of Body Burden as an Index of Environmental Contamination: Heavy Metals in Fish *Cottus gobio* L. from the River Ecclesbourne, Derbyshire, W85-01446 1803 5A

MORICONI, M. L. Dewfall and Evapotranspiration Determination During Day- and Nighttime on an Irrigated Lawn, W85-03849 1808 2D

MORIKAWA, K. Seasonal Fluctuation in the Number of Aerobic Heterotrophic Bacteria and Its Relation to Environmental Factors in the Upstream Area of the Tamagawa River (in Japanese), W85-00193 1801 2H

MORIN, J. Effect of Raindrop Impact Energy and Water Salinity on Infiltration Rates of Sodium Soils, W85-05188 1810 2G

MORITA, R. Y. Bacterial Activity Associated with the Decomposition of Woody Substrates in a Stream Sediment, W85-00105 1801 5B

MORIZET, J. Some Data and Reflections on the Drought Resistance Mechanisms of Maize and Sunflowers (Quelques Donnees et Reflexions sur les Mecanismes de Resistance a la Secheresse a Partir des Exemples du Mais et du Tournesol), W85-02333 1805 2I

MORLAND, L. W. Influence of Non-Uniform Temperature Distribution on the Steady Motion of Ice Sheets, W85-00173 1801 2C

MORLEY, A. W. Evaluation of Tracer Dilution Techniques for Gauging of Rivers in Flood, W85-03085 1806 2E

MOROZOV, N. V. Problem of Decontamination of Wastewaters of Livestock Complexes and Possible Ways of Solving It, W85-04139 1808 5D

MOROZZI, G. Bacteriological and Chemical Variations and Their Inter-relationships in a Slightly Polluted Water-Body, W85-04034 1808 5A

MORRILL, G. L. Time of Travel and Dispersion Study in the Androscoggin River Basin, Maine, W85-03911 1808 2E

MORRIS, A. W. Preliminary Model of the Dispersal and Biological Effect of Toxins in the Tamar Estuary, England, W85-00266 1801 5B

MORRIS, E. E. Water-Quality Assessment of the Illinois River Basin, Arkansas, W85-03925 1808 5B

MORRIS, H. F. Reducing Water Pollution with Subsurface Drainage, W85-03367 1807 5G

MORRIS, M. D. Computer Program for a Trilinear Diagram Plot and Analysis of Water Mixing Systems, W85-00360 1801 5A

MORRIS, M. K. Relationships Among Observed Metal Concentrations, Criteria, and Benthic Community Structural Responses in 15 Streams, W85-02584 1805 5A

MORRIS, R. Enteric Virus Levels in Wastewater Effluents and Surface Waters in the Severn Trent Water Authority 1979-1981, W85-01718 1804 5B

MORRIS, R. A. Drainage of a Tropoqualf before and after Water Extraction by a Crop, W85-00754 1802 2G

MORRIS, R. J. Particulate Load of the Red River, St. Ives Bay: Its Geochemical Composition and the Effect of its Discharge Plume on the Behaviour of a Resident Wild Dolphin, W85-06880 1812 5C

MORRIS, S. A. DUVAS As a Real-Time, Field-Portable Wastewater Monitor for Phenolics, W85-01159 1803 7B

MORRISON, P. F. Proximate Composition and Organochlorine and Heavy Metal Contamination of Eggs from Lake Ontario, Lake Erie and Lake Michigan Coho Salmon (*Oncorhynchus kisutch* Walbaum) in Relation to Egg Survival, W85-06436 1812 5C

MORRISON, W. R. Performance of Plastic Canal Linings, W85-06910 1812 8C

MORROW, C. M. Determination of Bromide in Natural Waters by Ion Chromatography Using a Concentrator Column, W85-02436 1805 5A

MORSE, R. Management of Sediment in New South Wales, Australia, W85-04444 1809 4D

MORSE, R. S. Polluting Sewers Brought Under Control, W85-04403 1808 5D

Polluting Sewers Brought Under Control, W85-05470 1810 5G

MORTLOCK, R. A. Geochemistry of Inorganic Germanium In Natural Waters, W85-04482 1809 2K

MORTON, A. J. Control of *Echinochloa stagnina* (Retz.) P. Beauv. by Harvesting for Dry Season Livestock Fodder in Lake Kainji, Nigeria - A Modelling Approach, W85-03077 1806 4A

MORTON, B. L. Ground Water Monitoring at a Septage Lagoon Facility in Connecticut, W85-00365 1801 5B

MORTON, F. I. What are the Limits on Forest Evaporation, W85-03760 1807 2D

MORTON, H. C. Oxygen Budget for an Urban Estuary, W85-00777 1802 2L

MOSCH, G. Efforts Toward a Basic Economic Study and Planning of the Drinking-Water Supply in the Upper Spree Region as a Basis for Capital Investment (Arbeiten zur Grundfondswirtschaftlichen Untersuchung und Planung der Trinkwasserversorgung im Oberen Spreegebiet als Grundlage der Investitionstätigkeit), W85-03516 1807 3B

MOSELLO, R. Hydrochemistry of High Altitude Alpine Lakes, W85-04076 1808 2H

Nutrient Load, Trophic Condition and Restoration Prospects of Lake Maggiore, W85-06883 1812 2H

MOSES, F. Environmental Engineering and Public Health Aspects of Alternate Dairy Waste Management Techniques Designed to Protect Ground Water Quality, W85-02724 1806 5E

MOSHCHANSKII, V. A. Engineering-Geologic Assessment of the Chalk Strata of the Tabqa Hydroelectric Station on the Euphrates River with Consideration of Operating Data, W85-00506 1801 8A

MOSLEY, M. P. Critical Depths for Passage in Braided Rivers, Canterbury, New Zealand, W85-01636 1804 2E

Flow Requirements for Recreation and Wildlife in New Zealand Rivers - A Review, W85-02558 1805 6D

Response of Braided Rivers to Changing Discharge, W85-00184 1801 2E

## AUTHOR INDEX

**MOSS, B.**

**MOSS, B.**  
River Bure, United Kingdom: Patterns of Change in Chemistry and Phytoplankton in a Slow-Flowing Fertile River,  
W85-05676 1810 2E

**MOSS, C.**  
Selected Bibliography of Water Resources Publications for Mississippi,  
W85-02033 1804 10C

**MOSS, C. W.**  
*Legionella anisa*: A New Species of *Legionella* Isolated From Potable Waters and a Cooling Tower,  
W85-05046 1810 5B

**MOSS, D.**  
Classification of Sites on British Rivers Using Macro-invertebrates,  
W85-05674 1810 2H

Preliminary Classification of Running-Water Sites in Great Britain Based on Macro-invertebrate Species and the Prediction of Community Type Using Environmental Data,  
W85-00293 1801 2H

**MOSS, J.**  
Sewage Sludge Treatment and Disposal - The Way Ahead,  
W85-04455 1809 5E

**MOSS, J. L.**  
Summer Selection of Thermal Refuges by Striped Bass in Alabama Reservoirs and Tailwaters,  
W85-06407 1812 2H

**MOSS, R. D.**  
Targeted Chlorination is Viable and Environmentally Acceptable,  
W85-05916 1811 5F

**MOTE, C. R.**  
Disposal of Household Wastewater in Soils of High Stone Content (1981-1983),  
W85-01815 1804 5D

**MOTHEES, G.**  
Sedimentation and Sediment Analysis in Muggel Lake (Sedimentation und Sedimentanalytik im Muggelsee),  
W85-06653 1812 2H

**MOTOMURA, M.**  
Microdetermination of Silicic Acid in Water by Gel-Phase Colorimetry with Molybdenum Blue,  
W85-03340 1807 5A

**MOTOOKA, J. M.**  
Analysis of Trace Metals in Water by Inductively Coupled Plasma Emission Spectrometry Using Sodium Dibenzylidithiocarbamate for Pre-concentration,  
W85-03743 1807 5A

**MOTSCHALL, R. M.**  
Regression Equations for Predicting Available Phosphorus and Potassium in Soil Receiving Barnyard Discharges,  
W85-03379 1807 5B

**MOTTA, J. C. JR.**  
Simulation of the Urbanization Effect in Flow,  
W85-01134 1803 2E

**MOTYKA, J.**  
Hydrogeological Properties of the Zalas Porphyry Laccolith Near Krzeszowice (Wlasnosci Hydrogeologiczne Porfirow Lakolitu Zalskiego Kolo Krzeszowic),  
W85-05858 1811 2F

**MOTZ, L. H.**  
Lower Hawthorn Aquifer on Sanibel Island, Florida,  
W85-00303 1801 4B

**MOUCHA, A.**

Chlorination of Humic Acids and Chloroform Production,  
W85-06648 1812 5F

**MOUCHET, P.**

Potable Water Treatment in Tropical Countries: Recent Experiences and Some Technological Trends,  
W85-02022 1804 5F

**MOUCHET, P. C.**

Influence of Recently Drowned Terrestrial Vegetation on the Quality of Water Stored in Impounding Reservoirs,  
W85-05646 1810 5G

**MOUGINIS-MARK, P. J.**

Mississippi River Outflow Patterns Seen by Seasat Radar,  
W85-06519 1812 2L

**MOUGOU, A.**

Water Stress Induction Using Polyethylene Glycol in Nutrient Film Technique. Effects of the Photosynthetic Parameters of three Tomato Species and one Hybrid,  
W85-03838 1808 2I

**MOUTONNET, P.**

Comparative Study of Four Automatic Irrigation Devices Applied to the Trickle Irrigation of Maize (Etude Comparative de Quatre Dispositifs d'Irrigation Automatique: Application au maïs Irrigé en Localisé),  
W85-01061 1802 3F

**MOUVET, C.**

Impact of the Tihange Nuclear Power Plant on the Periphyton and the Phytoplankton of the Meuse River (Belgium),  
W85-04388 1808 5C

**MOVERLEY, J.**

Macrofauna of the Cooling Water Discharge Canal of the Gladstone Power Station, Queensland,  
W85-00789 1802 5C

**MOWAFY, L.**

Environmental Engineering and Public Health Aspects of Alternate Dairy Waste Management Techniques Designed to Protect Ground Water Quality,  
W85-02724 1806 5E

**MOYA, G.**

Composition and Dynamics of Phytoplankton in the Cuber Reservoir, Spain,  
W85-05639 1810 2H

Seasonal Variations in the Vertical Distribution of *Oscillatoria rubescens* D.C. in the Gorg Blau Reservoir, Spain,  
W85-05640 1810 2H

**MOVERS, B.**

Removal of Organic Precursors by Permanganate Oxidation and Alum Coagulation,  
W85-06222 1812 5F

**MOYLAN, M. S.**

Determination of Subnanogram per Liter Levels of Earthy-Musty Odorants in Water by the Salted Closed-Loop Stripping Method,  
W85-01126 1803 5A

**MOYLE, P. B.**

Conservation of Freshwater Fishes of Sri Lanka,  
W85-00118 1801 5G

**MOYLE, W. R. JR.**

Map of the Carpinteria Area and Vicinity, Santa Barbara County, California, Showing Water-Level Contours for March 1983, and Net Change in Water Level Between March 1982 and March 1983,  
W85-03956 1808 7C

**MOZELL, E.**

Oxygen Injection Cuts Odors,  
W85-04652 1809 5D

**MOZLEY, S. C.**

Distribution of Oligochaetes in Lake Michigan and Comments on Their Use as Indices of Pollution,  
W85-06866 1812 5A

**MROZ, W. J.**

Effect of Anthropogenous Changes of Water Conditions on the Vegetation in the Forest Reserve Las Bielanski in Warsaw (Wplyw antropogeniczny zmian stoscunkow wodnych na rosline rozwazetwu Las Bielanski w Warszawie),  
W85-04610 1809 4C

**MUALEM, Y.**

Anisotropy of Unsaturated Soils,  
W85-00753 1802 2G

Predictor-Corrector Method for Measurement of Hydraulic Conductivity and Membrane Conductance,  
W85-02870 1806 2G

**MUCH, R. R.**

Characterization of Non-Point Waste Sources, Report No. 6: Summary of Non-Point Waste Loads, (Fox River Valley, Wis.),  
W85-00833 1802 5B

**MUDDER, T. I.**

Biological Treatment of Cyanidation Wastewaters,  
W85-05417 1810 5D

**MUDROCH, A.**

Chemistry, Mineralogy, and Morphology of Lake Erie Suspended Matter,  
W85-02890 1806 2H

Hydrocarbons in the Surficial Sediments of Lakes St. Claire, Erie, and Ontario,  
W85-02860 1806 5B

**MUDROCH, P.**

Hydrocarbons in the Surficial Sediments of Lakes St. Claire, Erie, and Ontario,  
W85-02860 1806 5B

**MUELLER, D. H.**

Soil and Water Losses as Affected by Tillage and Manure Application,  
W85-02323 1805 2J

**MUELLER, D. K.**

Water Quality of the Colorado River System: Historical Trends in Concentration, Load, and Mass Fraction of Inorganic Solutes,  
W85-04942 1809 2E

**MUELLER, J. A.**

Comparison of Dome and Static Aerators Treating Pharmaceutical Waste,  
W85-05413 1810 5D

Dual Nonsteady-State Evaluation of Static Aerators Treating Pharmaceutical Waste,  
W85-05252 1810 5D

Water Quality Analysis of New York Harbor Complex,  
W85-03801 1808 5B

**MUELLER, J. T.**

Oxygen Uptake Rates for Determining Microbial Activity and Application,  
W85-06230 1812 5D

**MUELLER, L. H.**

Toxicity of Endrin and Malathion Mixtures to Flagfish (*Jordanella floridae*),  
W85-07156 1812 5C

**MUFTUOGLU, R. F.**

Models for Nonlinear Catchment Analysis,  
W85-02493 1805 2E

## AUTHOR INDEX

MURAKAMI, Y.

**MUIR, D. C. G.**  
Bioaccumulation of Some Forestry Pesticides in Fish and Aquatic Plants, W85-06772 1812 5C

Degradation of Methoxychlor in Sediments under Various Redox Conditions, W85-01443 1803 5B

Degradation of Niclosamide (2',5-Dichloro-4'-nitrosalicylanilide) in Sediment and Water Systems, W85-00161 1801 5B

Fate of Fenitrothion in Shaded and Unshaded Ponds, W85-06771 1812 5B

Gas Chromatographic Determination of Picloram in Fish, W85-04433 1809 5A

**MUIR, T. C.**  
Integrated Planning System for Hydro Development in Ecuador, W85-04780 1809 6A

**MUJICA, M. B.**  
Effect of Gibberellic Acid on the Buoyancy of Spirodela intermedia W. Koch, W85-05610 1810 5G

**MUJUMDAR, V. S.**  
Acute Toxicity of Antimycin A, Bayer 73 and 3-Trifluoromethyl-4-Nitrophenol to a Freshwater Teleost Lebiasa reticulatus (Peters), W85-03236 1807 5C

Studies on the Toxicity of Pentachlorophenol, Sodium-pentachlorophenate and Phenol to a Pulmonate Snail Lymnaea luteola (Lamarck), W85-04059 1808 5C

**MUKAI, T.**  
Effects of Environmental Gradients Concerning Water Qualities on the Structure of the Phytoplankton Community in the Coastal Sea, W85-06853 1812 2L

Simulation Study of Eutrophication in Hiroshima Bay, W85-06739 1812 2L

**MUKHAMEDAMINOV, SH. B.**  
Dynamic Strength of Cohesionless Soils, W85-00459 1801 8D

**MUKHERJEE, A. K.**  
Rainfall Over Lakes Around Bombay, W85-05094 1810 2B

**MUKHOPADHYAY, P. K.**  
Relationship between Serum Enzymes, Histological Features and Enzymes in Hepatopancreas after Sublethal Exposure to Malathion and Phosphanidom in the Murrel Channa striatus (Bl.), W85-06557 1812 5C

**MULAMOOTTIL, G.**  
Impact of Alternative Housing Standards on Stormwater Management, W85-06554 1812 4A

Study of Residential Stormwater Impoundments: Perceptions and Policy Implications, W85-06242 1812 4A

Zero Side Yard Housing, Acceptance and Stormwater Management Implications, W85-04580 1809 4A

**MULHOLLAND, P. J.**  
Effects of Stream Channelization on Exports of Nitrogen and Phosphorus from North Carolina Coastal Plain Watersheds, W85-00979 1802 6G

Phosphorus Uptake by Decomposing Leaf Detritus: Effect of Microbial Biomass and Activity, W85-05670 1810 2H

**MULLEN, J. K.**  
Effect of Acidification Damages on the Economic Value of the Adirondack Fishery to New York Anglers, W85-07034 1812 5C

**MULLER, A.**  
Long-term Effects of 1,2,4-Trichlorobenzene on Freshwater Plankton in an Outdoor-Model-Ecosystem, W85-07154 1812 5C

Longterm Effects of the Herbicides Atrazine and Dichlobenil upon the Phytoplankton Density and Physico-chemical Conditions in Compartments of a Freshwater Pond, W85-01967 1804 5C

**MULLER, A. B.**  
Hydrogeochemistry of the Meade Thrust Allochthon, Southeastern Idaho, U.S.A., and Its Relevance to Stratigraphic and Structural Groundwater Flow Control, W85-05531 1810 2F

**MULLER, F.**  
Ice Movement Through Smith Sound in Northern Baffin Bay, Canada, Observed in Satellite Imagery, W85-00672 1802 2C

**MULLER, R.**  
Implications of Slow Deep Water Renewal of Lake Koenigssee Derived from Combined Tritium-3Helium Measurements, W85-06395 1812 2H

Stratification of the Koenigssee (Bavaria, Germany) (Die Schichtungsverhältnisse des Koenigssees), W85-02528 1805 2H

**MULLIN, M. D.**  
Intercomparisons of Analytical Methodology and Laboratory Capabilities Between Soviet and American Laboratories - 1973 and 1977, W85-02887 1806 5A

**MULLINS, D. E.**  
Livestock Lagoon Systems for Disposal of Pesticide Wastes, W85-03381 1807 5D

**MULLINS, T. L.**  
Selective Separation and Determination of Dissolved Chromium Species in Natural Waters by Atomic Absorption Spectrometry, W85-05524 1810 5A

**MULVANEY, J. N.**  
Legal Aspects of Acidic Precipitation, W85-01669 1804 6E

**MUMMA, R. O.**  
National Survey of Elements and Other Constituents in Municipal Sewage Sludges, W85-02192 1805 5E

**MUNCH, J. W.**  
Gas Chromatography/Mass Spectroscopy Analysis of Mutagenic Extracts of Aqueous Chlorinated Humic Acid. A Comparison of the Byproducts to Drinking Water Contaminants, W85-02345 1805 5B

Identification and Measurement of Components in Gasoline, Kerosene, and No. 2 Fuel Oil that Partition into the Aqueous Phase after Mixing, W85-02199 1805 5B

**MUNDA, I. M.**  
Salinity Dependent Accumulation of Zn, Co and Mn in Scytophion lomentaria (Lyngb.) Link and Enteromorpha intestinalis (L.) from the Adriatic Sea, W85-02844 1806 5B

**MUNDSCHEIN, H.**  
Behavior of Radionuclides in Rivers as Demonstrated in the Case of Co 60 from the Nuclear Power Station Wurgassen/Weser (Über das Verhalten von Radionukliden in Fließgewässern am Beispiel von Co 60 aus dem Kernkraftwerk Wurgassen/Weser), W85-06155 1811 5B

Contamination of the Federal Main Waterways by Fission Products Effected by the Chinese Nuclear Test from October 16th, 1980 (Über Auswirkungen des Kernwaffenversuches der Volksrepublik China vom 16. 10. 1980 im Bereich der Bundeswasserstrassen), W85-00964 1802 5B

**MUNEKAGE, Y.**  
Water Flow Characteristics of Uranouchi Bay During the Summer Stratification Season (in Japanese), W85-04070 1808 2L

**MUNIZ, I. P.**  
Relationship between Fish Populations and pH for Lakes in Southermost Norway, W85-00550 1802 5C

**MUNLEY, V. G.**  
Municipal Wastewater Treatment Cost, W85-03889 1808 6C

**MUNN, J. R. JR.**  
Deep Cultivation and Gypsum as Potential Solutions to Slow Water Penetration, W85-01093 1802 3F

**MUNN, R. E.**  
Long-Term Trends in Precipitation Chemistry at Hubbard Brook, New Hampshire, W85-04502 1809 5B

**MUNOZ-CANDELARIO, R.**  
Hydraulic Technique for Designing Scavenger-Production Well Couples to Withdraw Freshwater from Aquifers Containing Saline Water, W85-06316 1812 3B

**MUNSHI, J. D.**  
Limnology of Badua Reservoir of Bhagalpur, Bihar, W85-04080 1808 2H

**MUNSON, A. E.**  
Toxicology of Organic Drinking Water Contaminants: Trichloromethane, Bromodichloromethane, Bromochloromethane and Tribromomethane, W85-01211 1803 5C

**MUNSTER, U.**  
Distribution, Dynamic and Structure of Free Dissolved Carbohydrates in the Plusssee, a North German Eutrophic Lake, W85-04552 1809 2H

**MUNTAU, H.**  
Certification of the Contents of Some Heavy Metals (Cd, Co, Cu, Mn, Hg, Ni, Pb, and Zn) in Three Types of Sewage Sludge, W85-03279 1807 5A

**MUR, L. R.**  
Influence of Simulated Groundwater-Movement on the Phosphorus Release from Sediments, as Measured in a Continuous Flow System, W85-02094 1804 2F

Loosdrecht Lakes Restoration Project, an Introduction, W85-04544 1809 2H

Release of Sediment-Phosphorus and the Influence of Algal Growth on This Process, W85-01761 1804 2H

**MURAKAMI, T.**  
Moisture Budget During the 1978-79 Southern Hemisphere Summer Monsoon, W85-04023 1808 2B

**MURAKAMI, Y.**  
Study on Organic Pollution Parameters for Dyes and Dyeing Auxiliaries, W85-03746 1807 3C

## AUTHOR INDEX

**MURAMOTO, S.**

MURAMOTO, S.  
Influence of Anionic Surface-active Agents on the Uptake of Heavy Metals by Water Hyacinth (Eichhornia crassipes),  
W85-02781 1806 5C

MURAOKA, K.  
Some Considerations on Adequate Construction of Box Model and Its Application,  
W85-02613 1805 5B

MURAOKA, T.  
Internal Seiche and Waves in Lake Chuzenji (Japan),  
W85-02605 1805 2H

MURATA, C.  
Adsorption of Surfactants on Sediments,  
W85-01960 1804 5A

MURAVEV, O. A.  
Mathematical Modeling of Hydraulic Regimes in the Transition Between the Surge Tank and Conduits of a Hydroelectric Station,  
W85-04419 1809 8B

Optimization of Design Parameters of Complex Surge Tanks,  
W85-04426 1809 8A

MURDOCH, P. S.  
Hydrologic Analyses of Acidic and Alkaline Lakes,  
W85-03993 1808 2H

MURGATROYD, A. L.  
Spatial Variations in Precipitation Chemistry over Natal, South Africa,  
W85-00213 1801 5B

MURPHEY, J. B.  
Channel Cross-Section Changes in Mississippi's Goodwin Creek,  
W85-05967 1811 2J

MURPHREE, C. E.  
Plant Nutrient Yields in Runoff from a Mississippi Delta Watershed,  
W85-03397 1807 2J

MURPHY, A. H.  
Exploratory Analysis of Precipitation Events with Implications for Stochastic Modeling,  
W85-06427 1812 2B

MURPHY, M. L.  
Primary Production and Grazing in Freshwater and Intertidal Reaches of a Coastal Stream, Southeast Alaska,  
W85-02219 1805 2H

MURPHY, P. J.  
Bed Load or Suspended Load,  
W85-04397 1808 2J

Equilibrium Boundary Condition for Suspension,  
W85-04398 1808 2J

Iron Removal From TiO<sub>2</sub>-Plant Acidic Wastewater,  
W85-02278 1805 5D

MURPHY, S. M.  
Waterfowl Populations and Limnologic Characteristics of Taiga Ponds,  
W85-04081 1808 2H

MURPHY, T. J.  
Net Atmospheric Inputs of PCBs to the Ice Cover on Lake Huron,  
W85-01759 1804 5B

MURPHY, T. P.  
Coprecipitation of Phosphate with Calcite in a Naturally Eutrophic Lake,  
W85-01587 1803 2H

MURRAY, A.  
Chemical Flocculation of Sewage,  
W85-04338 1808 5D

MURRAY, D.  
Subchronic Toxicity of Chlorine Dioxide and Related Compounds in Drinking Water in the Nonhuman Primate,  
W85-01204 1803 5F

MURRAY, D. E.  
Case Study of Leachate and Gas Management at a Sanitary Landfill,  
W85-05365 1810 5D

MURRAY, G. E.  
Effect of Chlorination on Antibiotic Resistance Profiles of Sewage-Related Bacteria,  
W85-02139 1804 5D

MURRAY, J. W.  
Organic Matter Diagenesis in Freshwater Sediments: The Alkalinity and Total CO<sub>2</sub> Balance and Methane Production in the Sediments of Lake Washington,  
W85-03876 1808 2H

MURRAY, R. E.  
Annual Cycle of Bacterial Secondary Production in Five Aquatic Habitats of the Okefenokee Swamp Ecosystem,  
W85-05512 1810 2H

MURRAY, S. N.  
Analysis of Seaweed Communities in a Disturbed Rocky Intertidal Environment near White Point, Los Angeles, Calif., U.S.A.,  
W85-03502 1807 2L

MURTI, C. R. K.  
Water Flea (*Daphnia magna*) as a Sensitive Indicator for the Assessment of Toxicity of Synthetic Detergents,  
W85-02943 1806 5C

MURTI, R.  
Mercuric Chloride Intoxication in Freshwater Prawn, II; Effect on Phosphatases Activity,  
W85-06016 1811 5C

Toxicity of Copper Sulphate and Zinc Sulphate to Macrobrachium lamarrei (H. Milne Edwards) (Decapoda, Palamoniidae),  
W85-03513 1807 5C

MURTZAEVA, Z. M.  
Engineering-Geologic Surveys and Forecasts for Hydrotechnical Construction on Slump-Prone Loess Soils,  
W85-06591 1812 8D

MUSCH, A.  
Problems in Reconstructing Gravity Dams - Stress-Deformation Analysis for an Added Concrete Coating (Probleme der Rekonstruktion von Gewichtsstaumauern-Spannungs-Verformungsanalyse für einen Vorsatzbetonmantel),  
W85-03452 1807 8A

Quantitative Structure-Activity Relationships and Mixture Toxicity of Organic Chemicals in Photobacterium phosphoreum: The Microtox Test,  
W85-05809 1810 5C

Quantitative Structure-Activity Relationships and Mixture Toxicity Studies of Chloro- and Alkylanilines at an Acute Lethal Toxicity Level to the Guppy (*Poecilia reticulata*),  
W85-02702 1806 5C

MUSELASOVA, I.  
Isotachophoretic Determination of Anionic and Cationic Species in Well and Surface Waters,  
W85-05910 1811 5A

MUSGRAVE, W. F.  
Flood Damage Mitigation: A Review of Structural and Nonstructural Measures and Alternative Decision Frameworks,  
W85-06495 1812 6B

MUSLU, Y.  
Flow over Side Weirs in Circular Channels,  
W85-04401 1808 5B

MUSQUERE, P.  
Remote Monitoring and Optimisation of Pumping at the Syndicat des Eaux de La Haute-Loue (Telesurveillance et Optimisation du Pompage du Syndicat des Eaux de La Haute-Loue),  
W85-02005 1804 5F

MUSSALLEM, K.  
Best Management Practices for Controlling Nonpoint-Source Pollution on Forested Watersheds,  
W85-05971 1811 5G

MUSSALLI, Y. G.  
Biofouling Control Through Targeted Chlorination,  
W85-03051 1806 5F

MUSTAFA, S.  
Unsteady Flow to a Ditch from a Semi-Confining and Leaky Aquifer,  
W85-04164 1808 2A

MUSTAIN, R. S.  
Shoaling of Port of Astoria, Oregon, by Sediment from Mt. St. Helens Eruption,  
W85-06302 1812 2J

MUSTY, P.  
Optimization of Coleshill Activated-Sludge Plant Operating Conditions,  
W85-04590 1809 5D

MUTHURI, F. M.  
Diurnal Course of Plant Water Potential, Stomatal Conductance and Transpiration in a *Cyperus papyrus* L. Canopy,  
W85-02341 1805 2I

MYER, F. W.  
Subsurface Storage of Freshwater in South Florida: A Prospectus,  
W85-00029 1801 4B

MYERS, C. F.  
Nonpoint Sources of Water Pollution,  
W85-05940 1811 5B

MYERS, M. S.  
Chemical Pollutants in Sediments and Diseases of Bottom-Dwelling Fish in Puget Sound, Washington,  
W85-02347 1805 5C

MYERS, R. S.  
Adsorption-Desorption Kinetics of Atrazine and Linuron in Freshwater-Sediment Aqueous Slurries,  
W85-06624 1812 5B

MYETTE, C. F.  
Appraisal of Water from Surficial-Outwash Aquifers in Todd County and Parts of Cass and Morrison Counties, Central Minnesota,  
W85-02038 1804 4B

MYHRSTAD, J. A.  
Drinking Water in Developing Countries - The Minimum Treatment Philosophy. A Case Study,  
W85-02018 1804 3B

MYLLYMAA, U.  
Lake Water Geochemistry of Two Geologically Contrasted Areas in Kuusamo, North-Eastern Finland,  
W85-05066 1810 2H

N'DIAYE, A.  
Soil Amoebas as Biological Markers to Estimate the Quality of Swimming Pool Waters,  
W85-07126 1812 5A

N'GO, A.  
Soil Amoebas as Biological Markers to Estimate the Quality of Swimming Pool Waters,  
W85-07126 1812 5A

## AUTHOR INDEX

**NABHOLZ, J. V.**  
Inexpensive Weir and Proportional Sampler for Miniature Watershed Ecosystems, W85-02990 1806 7B

**NACHEV, N. D.**  
Oligochet Worms Complex of the Blagoevgradska Bistritsa River as Affected by Some Factors of the Environment (Dinamika na Oligokhetniya Kompleks v Reka Blagoevgradska Bistritsa v Zavisimost Nyakoi Faktori na Sredata), W85-03104 1806 5C

**NACHTNEBEL, H. P.**  
Extreme Value Processes and the Evaluation of Risk in Flood Analysis, W85-06561 1812 2E

**NADAKAVUKAREN, J. J.**  
Seasonal Variation of Arsenic Concentration in Well Water in Lane County, Oregon, W85-02414 1805 5B

**NADEN, P.**  
Process Based Model of Faecal Bacterial Levels in Upland Catchments, W85-01420 1803 5B

**NADLER, A.**  
Hydrogeochemistry of Continental Brackish Waters in the Southern Coastal Plain, Israel, W85-01095 1802 2K

**NADON, R. L.**  
Impact of Groundwater on Mining and Underground Space Development in the Niagara Escarpment Area, W85-03417 1807 2F

**NAF, A.**  
New Materials in Pipe Networks - Special Consideration of Internal Coatings, W85-01997 1804 2G

**NAGAMOTO, C.**  
Chemical Analysis of Cloud Water Collected over Hawaii, W85-00515 1802 2K

**NAGANO, K.**  
Sediments of Haneji Inlet and Its Environs, Okinawa, Subtropical Japan, W85-02880 1806 2J

**NAGANO, S. Y.**  
Integrating Anaerobic Digestion and Algal-Biomass Treatment Processes for Swine Wastewater, W85-05410 1810 5D

**NAGASHIMA, Y.**  
Toxicity and Accumulation of Mercury in Fish, the Himedaka *Oryzias latipes*, W85-00138 1801 5C

**NAGEL, M.**  
Some Problems in the Application of the MPN Method for the Quantitative Determination of *Salmonella* (Einige Probleme bei der Anwendung des MPN-Verfahrens zur quantitativen Salmonellenbestimmung), W85-06650 1812 5A

**NAGELS, J. W.**  
Modifications to Electrolytic Respirometer Systems for Precise Determination of BOD Excretion Kinetics in Receiving Waters, W85-06734 1812 7B

**NAGLE, D. L.**  
Leaching Behavior of Lead and Cadmium at Various pH Conditions, W85-05370 1810 5E

**NAGPAL, N. K.**  
Long-Term Phosphorus Sorption in a Brunisol in Response to Dosed-Effluent Loading, W85-06726 1812 5E

**NAGUIB, M.**  
Methanogenesis in Sediments of Eutrophic Lakes; 2. Comparative Investigations on the Methane-Precursor Preference, W85-04554 1809 2H

Methanogenesis in Sediments of Inland Waters; 1. Methanol as the Dominant Methane 'Precursor' in the Sediments of an Eutrophic Lake (Methanogenese im Sediment der Binnengewässer 1. Methanol als dominanter Methan- Precursor im Sediment eines eutrophen Sees), W85-00769 1802 2H

**NAGY, E.**  
Analytical Chemistry, W85-05593 1810 5A

Hydrocarbons in the Surficial Sediments of Lakes St. Claire, Erie, and Ontario, W85-02860 1806 5B

**NAIDENOV, V. T.**  
Plankton as a Basis for the Estimation of the Possible Natural Fish Productivity of Durankulak Lake (Plankton Kato Baza za Otsenka na Potentsialnata Estestvena Piboproduktivnost na Kaimorskata Ezero Durankulak), W85-03099 1806 2H

**NAIDU, K. M.**  
Growth Behaviour of Field Grown Sugarcane Varieties in Relation to Environmental Parameters and Soil Moisture Stress, W85-06192 1812 2I

**NAIK, B.**  
Mechanics of Mudflows, W85-01816 1804 8B

**NAIMAN, R. J.**  
Benthic Community Metabolism in Four Temperate Stream Systems: An Inter-Biome Comparison and Evaluation of the River Continuum Concept, W85-06792 1812 2H

Nitrogen Budget of a Subarctic Stream Altered by Beaver (*Castor canadensis*), W85-00209 1801 2H

Nitrogen Fixation in Subarctic Streams Influenced by Beaver (*Castor canadensis*), W85-05737 1810 2H

Particulate allochthonous Inputs: Relationships with Stream Size in an Undisturbed Watershed, W85-03309 1807 2H

**NAIMIE, H.**  
Statistical Considerations in the Evaluation of Chronic Aquatic Toxicity Studies, W85-03971 1808 5A

**NAIR, G. B.**  
Seasonal Distribution of *Vibrio parahaemolyticus* in Freshwater Environirs and in Association with Freshwater Fishes in Calcutta, W85-04261 1808 5B

**NAIR, K. V. K.**  
Total Removal of Coliforms and *E. coli* from Domestic Sewage by High-Rate Pond Mass Cultures of *Scenedesmus obliquus*, W85-00906 1802 5D

**NAIR, N. B.**  
Nature of Primary Production in a Tropical Backwater of the Southwest Coast of India, W85-04079 1808 2L

**NAIR, P. S.**  
Effects of Phosphate Fertilizer Applications and Chemistry-Mineralogy of the Iron Oxide System on Phosphate Adsorption-Desorption by Stream Sediments, W85-01794 1804 5B

**NAITO, Y.**  
Recovery of Acid from Wastewater by Electrodialysis, W85-03977 1808 5D

Recovery of Acid from Wastewater by Electrodialysis, W85-07095 1812 5D

**NAJARIAN, T. O.**  
Lagrangian Transport Model for Estuaries, W85-02270 1805 2L

**NAKAGAWA, T.**  
Note on Boundary Effects on Stream Meandering, W85-01275 1803 2E

**NAKAGAWA, Y.**  
Reaction Kinetics of Sodium Bisulfite and Dissolved Oxygen in Seawater and Their Applications to Seawater Reverse Osmosis, W85-03973 1808 3A

**NAKAGOME, K.**  
New Thin-Film Composite Reverse Osmosis Membranes and Spiral Wound Modules, W85-02553 1805 3A

**NAKAJIMA, S.**  
Interrelationship Between Some Environmental Factors of Riverbed Gravels and Pollution Index of Bottom Fauna in the River, W85-03509 1807 5C

**NAKAMOTO, I.**  
Phytoplankton of Lake Simcoe During the Ice-Free Periods of 1980-82 and Potential Response to Reduced Phosphorus Loadings, W85-06860 1812 2H

**NAKAMOTO, M.**  
Trace Determination of Aldehydes in Water by High-Performance Liquid Chromatography, W85-04622 1809 5A

**NAKAMURA, K.**  
Gas Chromatographic Determination of Hydrogen Sulphide in Anoxic Waters, W85-01151 1803 5A

**NAKAMURA, M.**  
Spectrophotometric Determination of Nitrite in Waters with 5,7-Dihydroxy-4-imino-2-oxochroman, W85-02833 1806 5A

**NAKAMURA, S.**  
Water Quality and Rock Weathering in the Upper Reaches of the Tenryu River in Connection with Landslide Disasters, W85-00187 1801 2K

**NAKAMURA, T.**  
Bioconcentration Potential of Polydimethylsiloxane (PDMS) Fluids by Fish, W85-02865 1806 5C

**NAKANISHI, M.**  
Effect of Nutrient Enrichment on the Natural Phytoplankton Community of Lake Biwa Maintained in Glass Bottles, W85-03510 1807 5C

**NAKANO, T.**  
Water Quality Characteristics of the Harima Nada Coastal Area, COD Load Caused by Primary Production, W85-04969 1810 2L

**NAKANO, Y.**  
Role of Heat and Water Transport in Frost Heaving of Fine-Grained Porous Media Under Negligible Overburden Pressure, W85-04167 1808 2C

Similarity Solutions to the Second Boundary Value Problem of Unsaturated Flow Through Porous Media, W85-04156 1808 2G

## AUTHOR INDEX

**NAKANO, Y.**

Transport of Water in Frozen Soil: III. Experiments on the Effects of Ice Content, W85-03477 1807 2G

Transport of Water in Frozen Soil; IV. Analysis of Experimental Results of the Effects of Ice Content, W85-04161 1808 2G

**NAKASAKI, K.**  
Change in Microbial Numbers During Thermophilic Composting of Sewage Sludge with Reference to CO<sub>2</sub> Evolution Rate, W85-04259 1808 5E

Characteristics of Mesophilic Bacteria Isolated during Thermophilic Composting of Sewage Sludge, W85-04260 1808 5E

Effect of Seeding During Thermophilic Composting of Sewage Sludge, W85-05513 1810 5D

**NAKASE, A.**  
Centrifuge Model Tests on Bearing Capacity of Clay, W85-03813 1808 8D

**NAKASHIMA, S.**  
Determination of Nitrate in Natural Waters by Flow-Injection Analysis, W85-03720 1807 5A

Partitioning of Heavy Metals (Mn, Fe, As, Cd, Pb, Cu, Zn, Co and Ni) into Selective Chemical Fractions in Sediment Cores from Lake Biwa (in Japanese), W85-05027 1802 5B

Simultaneous Preconcentration of Copper, Nickel and Cobalt in Water by Coprecipitation-Flotation for Electrothermal Atomic Absorption Spectrometry, W85-03742 1807 5A

**NAKATO, T.**  
Computer-Based Prediction of Alluvial Riverbed Changes, W85-06117 1811 2J

Numerical Integration of Einstein's Integrals, I1 and I2, W85-03795 1808 2J

**NAKAYA, S.**  
Complexing Capacity of River Water (in Japanese), W85-00538 1802 2H

**NAKAYAMA, F. S.**  
Calibration of Soil Surface Neutron Moisture Meter, W85-03096 1806 2G

Crop Water Stress Index, Soil Water, and Rubber Yield Relations for the Guayule Plant, W85-03361 1807 2I

Water Management for Guayule Rubber Production, W85-06085 1811 3F

**NAKAYAMA, Y.**  
Estimation of Acceptable Water Quality Conditions in the Tama River, Japan, W85-01403 1803 5B

**NALETOVA, I. A.**  
Production-Destruction Processes in the Budak Liman, W85-04125 1808 2L

**NALLURI, C.**  
Incipient Motion of Sediment Particles Over Fixed Beds, W85-02931 1806 2J

**NAND, K.**  
Prospects of Acid Rain Over India, W85-05100 1810 5B

**NANDAKUMAR, R.**  
Effect of Pesticides on Photosynthesis and Respiration of Marine Macrophytes, W85-02795 1806 5C

**NANEY, J. W.**  
Macroporosity to Characterize Spatial Variability of Hydraulic Conductivity and Effects of Land Management, W85-02317 1805 2G

Prediction of Economic Potential for Irrigation Using a Ground-Water Model, W85-00336 1801 4B

Scaling Soil Water Properties and Infiltration Modeling, W85-02867 1806 2G

**NANSON, G. C.**  
Lateral Migration Rates of River Bends, W85-03776 1808 2J

**NAOT, D.**  
Response of Channel Flow to Roughness Heterogeneity, W85-03777 1808 2E

**NARAIN, P.**  
Statistical Study on Incidence of Drought in Relation to Agricultural Production, W85-05089 1810 2B

**NARASIAH, K. S.**  
Seasonal Variations of Phosphate Species in Wastewater, W85-02823 1806 5D

**NARASIMHAN, T. N.**  
Groundwater Contamination From an Inactive Uranium Mill Tailings Pile: 1. Application of a Chemical Mixing Model, W85-03575 1807 5B

Heat and Mass Transfer in a Fault-Controlled Geothermal Reservoir Charged at Constant Pressure, W85-00176 1801 2F

**NARAYANA, V. V. D.**  
Water Use Planning for Alkali Soils under Reclamation, W85-01511 1803 3F

**NARAYANAN, R.**  
Development of a Comprehensive Upper Colorado River Basin Model for Analyzing Energy Development Impacts, W85-06323 1812 4A

Price Rigidity and Quantity Rationing Rules Under Stochastic Water Supply, W85-01339 1803 3D

**NAREBSKA, A.**  
Ions and Water Transport Across Charged Nafion Membranes. Irreversible Thermodynamics Approach, W85-02551 1805 3A

**NARF, R. P.**  
Statistical Procedures for Applying Hilsenhoff's Biotic Index, W85-02245 1805 5A

**NARJARI, N. K.**  
Biological Denitrification in a Fluidized Bed, W85-04660 1809 5D

**NARKIS, N.**  
Kinetic Studies of Chemical and Biological Treatment for Renovation, W85-07053 1812 5D

**NARVEKAR, P. V.**  
Behaviour of Boron, Calcium and Magnesium in a Polluted Estuary, W85-00668 1802 5B

**NASH, T. H. III.**  
Influence of Water on CO<sub>2</sub> Exchange in the Lichen *Parmelia praesignis* Nyl., W85-02901 1806 2I

**NASSAR, M. M.**  
Colour Removal from Textile Effluents Using Hardwood Sawdust as an Absorbent, W85-06659 1812 5D

**NASSEHZADEH-TABRIZI, A.**  
Stream Water Levels Affect Field Water Tables and Corn Yields, W85-04726 1809 2F

**NASSER, A.**  
Simultaneous Concentration of Four Enteroviruses from Tap, Waste, and Natural Waters, W85-02137 1804 5A

**NASTROM, G. D.**  
Relationship of Precipitation to Vertical Motion Observed Directly by a VHF Wind Profiler During a Spring Upslope Storm Near Denver, Colorado, W85-07075 1812 2B

**NATAL'CHISHIN, G. D.**  
Effect of Breaking Waves on Structures with an Incomplete Vertical Profile, W85-00474 1801 8B

**NATH, K.**  
Nickel Induced Hyperglycemia in the Freshwater Fish, *Colisa fasciatus*, W85-05693 1810 5C

**NATH, K. J.**  
Biological Effect of Some Poisons on *Canthocampus* (Crustacean spp), W85-05446 1810 5C

**NATH, V.**  
Triadimefon Reduces Transpiration and Increase Yield in Water Stressed Plants, W85-06104 1811 2I

**NAUmann, O.**  
Experience with Rational Water Management in Animal Raising (Erfahrungen beim rationellen Umgang mit Wasser in der Tierproduktion), W85-03469 1807 3F

**NAUMOSKI, T.**  
Nitrogen Loading: Influence on Dissolved Inorganic Carbon in Natural Waters, W85-02623 1805 5C

**NAUMOV, A. E.**  
Calculation of Water Exchange Between Bodies of Water with Special Reference to the Kerch Strait, W85-04116 1808 2A

**NAUMOVA, S. M.**  
Microbiological Survey on the Effect of the Blagoevgradska Bistritsa River on the Struma River Water Quality (Mikrobiologichno Izследvane na Vlyaniyeto na Reka Blagoevgradska Bistritsa Vrkhoo Kachestvoto na Vodata na reka Struma), W85-03105 1806 5B

**NAVARRE, J. P.**  
Space Time Analysis of Hourly Precipitation Measured in the South East of France During the AlpeX Campaign (Analyse Spatio-temporelle des Precipitations Horaires Mesurees dans le Sud-Est de la France Lors de la Campagne AlpeX), W85-05017 1810 2B

**NAVARRO, J.**  
Light Attenuation in Spanish Reservoirs. Relationship with Chlorophyll and Suspended Particulate Material (Extincion de la luz en los Embalses Espanoles. Relaciones con la Concen-

## AUTHOR INDEX

NELSON, L. M.

tracion de Clorofila y las Paticulas en Suspension),  
W85-05747 1810 2H

**NAWAS, R.**  
Sediment Supply and Accumulation in a Small  
Moroccan Lake: An Historical Perspective,  
W85-00792 1802 2J

**NAWOGAZIE, F. I. L.**  
Unified Streamflow Routing by Finite Elements,  
W85-03779 1808 2E

**NAWY, E. G.**  
Modeling for Design of Landfill Bottom Liners,  
W85-03803 1808 5G

Moisture Transport in a Solid Waste Column,  
W85-02276 1805 5B

**NAYAR, P. S.**  
Quantification of Drought and Crop Potential,  
W85-05078 1810 2B

**NAYMIK, T. F.**  
Water Reuse Through Groundwater Recharge  
in Northeastern Illinois,  
W85-06941 1812 5D

**NAZAR, A.**  
Integrated Ground Water Monitoring Program  
Using Multilevel Gas-Driven Samplers and Conven-tional Monitoring Wells,  
W85-03173 1806 5A

**NAZARENKO, S. N.**  
Change in the Ice and Thermal Regime of the  
Vilyui River in the Lower Pool of the Vilyui I-II  
Hydrostation,  
W85-00480 1801 6G

**NAZAROV, A. V.**  
Experience in Operating the Bratsk Reservoir,  
W85-04429 1809 4A

**NCINERNEY, J.**  
1981 CCOPE PROBE Mesonet Calibration and  
Maintenance Measures,  
W85-04928 1809 7B

**NDIOWEKWE, C. L.**  
Investigation of the Heavy Metal Content of  
Sediments and Algae from the River Niger and  
Nigerian Atlantic Coastal Waters,  
W85-00283 1801 5B

**NEAL, L. A.**  
Land Treatment of Waste as an Industrial Siting  
Advantage,  
W85-05249 1810 5D

**NEALE, P. J.**  
Diurnal Cycle of Stratification in Lake Titicaca:  
Eddy Diffusion,  
W85-04567 1809 2H

**NEALSON, K. H.**  
Microbially Mediated Manganese Oxidation in a  
Freshwater Lake,  
W85-01598 1803 2H

**NEAME, P. A.**  
Distribution and Concentrations of Naturally-  
Occurring Radionuclides in Sediments in a Uranium  
Mining Area of Northern Saskatchewan, Canada,  
W85-02083 1804 5B

**NEARY, D. G.**  
Determination of Picloram in Soil and Water by  
Reversed-Phase Liquid Chromatography,  
W85-02204 1805 5A

Monitoring Herbicide Residues in Springflow  
After an Operational Application of Hexazinone,  
W85-00546 1802 5B

Simulation of Herbicide Concentrations in  
Stormflow From Forested Watersheds,  
W85-04991 1810 2A

**NECHAEV, A. P.**  
USSR Runoff Treatment,  
W85-05835 1810 5D

**NEEDLEMAN, H.**  
Lead in Umbilical Blood, Indoor Air, Tap  
Water, and Gasoline in Boston,  
W85-03339 1807 5C

**NEELY, N.**  
Biological Treatability of Photoprocessing  
Wastewater: Part I,  
W85-05560 1810 5D

**NEELY, W. B.**  
Analysis of Aquatic Toxicity Data: Water Solu-  
bility and Acute LC50 Fish Data,  
W85-01966 1804 5C

**NEFF, J. M.**  
Bioaccumulation of Organic Micropollutants  
from Sediments and Suspended Particulates by  
Aquatic Animals,  
W85-03283 1807 5B

Field Assessment of Biochemical Stress Indices  
for the Sandworm *Neanthes virens* (Sars),  
W85-05889 1811 5C

Toxicity of Mercuric Chloride and Methylmer-  
curic Chloride to *Fundulus Heteroclitus* Em-  
bryos in Relation to Exposure Conditions,  
W85-01119 1803 5C

**NEFFE, K.**  
Water Plant Serves Two Masters,  
W85-00738 1802 5F

**NEETEL, A.**  
Sulphate and Nitrate Concentrations in Snow  
From South Greenland 1895-1978,  
W85-06801 1812 5B

**NEGI, U.**  
Ecology of the Limnofauna in the River Kosi of  
the Kumau Himalaya (Uttar Pradesh),  
W85-06011 1811 2H

**NEGILSKI, D. S.**  
Accumulation of Cadmium from Contaminated  
Water and Sediment by the Shrimp *Callianassa*  
*australis*,  
W85-02538 1805 5C

**NEGRI, A. J.**  
Rain Estimation from Satellites: An Examination  
of the Griffith-Woodley Technique,  
W85-01041 1802 2B

**NEHLSEN, W.**  
Nutrient Enrichment of Chesapeake Bay and Its  
Impact on the Habitat of Striped Bass: A Specu-  
lative Hypothesis,  
W85-06409 1812 2L

**NEIHEISEL, T. W.**  
Activated Sludge with Powdered Activated  
Carbon Treatment of a Dyes and Pigments  
Processing Wastewater,  
W85-05553 1810 5D

**NEILD, R. E.**  
Determining Drought Frequency and Intensity  
on the Basis of Plant Response: Wild Hay in the  
Sand Hills of Nebraska, U.S.A.,  
W85-01064 1802 2B

**NEILL, C.**  
Natural Factors and Human Modifications Con-  
tributing to Marsh Loss in Louisiana's Mississip-  
pi River Deltaic Plain,  
W85-04603 1809 2L

**NEILSON, A. H.**  
Tri- and Tetra-Chloroveratrole, Metabolites  
Produced by Bacterial O-Methylation of Tri-  
and Tetra-Chloroguaiacol: An Assessment of  
Their Biocconcentration Potential and Their Ef-  
fects on Fish Reproduction,  
W85-03310 1807 5C

**NEITZEL, D. A.**  
Assessment of Intergravel Conditions Influenc-  
ing Egg and Alevin Survival During Salmonid  
Redd Dewatering,  
W85-05711 1810 6G

**NEITZEL, V.**  
Significance of Solvation Phenomena for the  
Partition of Halogenated Organic Compounds  
Between Water and a Paraffinic Phase (Die Be-  
deutung der Solvatation für die Verteilung von  
Halogenorganischen Verbindungen Zwischen  
Wasser und Einer Paraffinphase),  
W85-07024 1812 2K

**NEKRASOV, V. M.**  
On-Site Tests of a Segmental Constriction as a  
Flowmeter in Large Diameter Pipes,  
W85-05985 1811 8A

**NEKRASOVA, T. F.**  
Changes in the Reclamation Conditions of the Ili  
Delta Head Following Streamflow Regulation,  
W85-04131 1808 6G

**NELLIS, M. D.**  
Remote Sensing Approach for Modeling Water  
Resource Use,  
W85-03145 1806 7B

**NELSON, A.**  
Voltammetric Measurement of Copper(II)/Or-  
ganic Interactions in Estuarine Waters,  
W85-07163 1812 5A

**NELSON, C. S.**  
Sedimentology and Evolution of Ohia Har-  
bour, a Barrier-Impounded Estuarine Lagoon in  
Bay of Plenty,  
W85-06798 1812 2L

**NELSON, D. A.**  
Effects of Long-Term Exposure to Silver or  
Copper on Growth, Bioaccumulation and Histopathology  
in the Blue Mussel *Mytilus edulis*,  
W85-01355 1803 5C

**NELSON, D. E.**  
Fecal Coliform in the Salt River Recreation  
Areas of Arizona,  
W85-02394 1805 5B

**NELSON, D. J.**  
Use of Landsat Radiance Parameters to Disting-  
uish Soil Erosion, Stability, and Deposition in  
Arid Central Australia,  
W85-03998 1808 7B

**NELSON, D. M.**  
Effects of Dissolved Organic Carbon on the  
Adsorption Properties of Plutonium in Natural  
Waters,  
W85-04799 1809 5B

Effects of Physical Phenomena on the Distribu-  
tion of Nutrients and Phytoplankton Productiv-  
ity in a Coastal Lagoon,  
W85-00652 1802 2L

**NELSON, F.**  
Computer Simulation of Buoyancy and Snow-  
Cover Effects in Paisa Dynamics,  
W85-00877 1802 2C

**NELSON, K.**  
Problems with Farm Dams Built in Droughts,  
W85-02359 1805 8D

**NELSON, L. D.**  
Comparison of the Potential of Cloud Seeding to  
Enhance Mountain Snowpack in Colorado  
During Dry, Normal and Wet Winters,  
W85-04211 1808 3B

**NELSON, L. M.**  
Flood Elevations for the Soleduck River at Sol  
Duc Hot Springs, Clallam County, Washington,  
W85-01773 1804 4A

## AUTHOR INDEX

**NELSON, M.**

**NELSON, M.**  
Economic/Institutional Issues in Sedimentation Management in Developing Countries,  
W85-04443 1809 4D

**NELSON, P. O.**  
Copper and Cadmium Uptake by Estuarine Sedimentary Phases,  
W85-01122 1803 5B

**NELSON, R. W.**  
Better Rationale for Wetland Management,  
W85-02295 1805 2L

Idealized Ground-Water Flow and Chemical Transport Model (S-PATHS),  
W85-01532 1803 5B

**NELSON, T.**  
Interaction Between Riparian Vegetation, Water Temperature, and Salmonid Habitat in the Tu-cannon River,  
W85-06239 1812 2H

**NELSON, W. C.**  
Proposed Framework for Developing a Multidisciplinary Wetlands Valuation Model,  
W85-04684 1809 2L

**NELVA, A.**  
Model for Rapid Growth Evaluation in Fishes: The Case of the Cyprinids of Some Large French Rivers,  
W85-05717 1810 2H

**NEMBRINI, G.**  
Interaction Between Interstitial Water and Sediment in Two Cores of Lac Leman, Switzerland,  
W85-02084 1804 2H

Manganese Cycle in Lac Leman, Switzerland: The Role of Metallogenium,  
W85-02081 1804 2H

**NEMEROW, N.**  
Heavy Metal Migration in Soil-Leachate Systems,  
W85-01868 1804 5B

Two-Dimensional Time-Dependent Simulation of Contaminant Transport from a Landfill,  
W85-02272 1805 5G

**NERAD, T. A.**  
Distribution and Possible Interrelationships of Pathogenic and Nonpathogenic Acanthamoeba from Aquatic Environments,  
W85-02189 1805 5B

**NERETNIEKS, I.**  
Approach to Modelling Radionuclide Migration in a Medium with Strongly Varying Velocity and Block Sizes Along the Flow Path,  
W85-03988 1808 5B

**NESBITT, H. W.**  
Activity Coefficients of Ions in Alkali and Alkaline-Earth Chloride Dominated Waters Including Seawater,  
W85-01097 1802 2K

Chemical Equilibrium Model for the Illinois Basin Formation Waters,  
W85-06872 1812 2K

**NESKE, P.**  
Determination of Traces of Mercury in Waters in the ppt-Range (Zur Bestimmung von Quecksilberspuren in Wassern im ppt-Bereich),  
W85-03280 1807 5A

**NESMERAK, I.**  
Spectral Analysis of the Automatically Recorded Data from Slapy Reservoir, Czechoslovakia,  
W85-06881 1812 2H

**NESTLER, J.**  
Movement, Transport, and Scour of Particulate Organic Matter and Aquatic Invertebrates

Downstream from a Peaking Hydropower Project,  
W85-06973 1812 6G

**NESTRICK, T. J.**  
Determination of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin in Treated Wastewater,  
W85-01729 1804 5A

**NETZER, A.**  
Adsorption of Copper, Lead and Cobalt by Activated Carbon,  
W85-01717 1804 5D

**NEUMANN, K.**  
Basis for Automation of Control of the Thunersee (Die Grundlagen fur die Automatisierung der Thunerseeregulierung),  
W85-01260 1803 4A

**NEUMANN-MAHLKAU, P.**  
Influence of Redox Potential and pH on the Heavy Metal Content of Ground Water in the Heisinger Aue Area, West Germany (Der Einfluss von Redoxpotential und pH auf die Schwermetallgehalte des Grundwassers der Heisinger Aue (Ruhrtal Sudlich Essen)),  
W85-05450 1810 5B

**NEUSCHWANDER, K. M.**  
Long-Distance, High-Pressure Water Supply System for Bonanza Power Plant,  
W85-05328 1810 8C

**NEW, M.**  
Morobe's Micro Hydro: Reality and Potential,  
W85-03325 1807 6B

**NEWBERY, D. M.**  
Effect of Temperature and Salinity on the Toxicity of Chromium to Three Estuarine Invertebrates (Corophium volutator, Macoma balthica, Nereis diversicolor),  
W85-04083 1808 5C

**NEWBOLD, J. D.**  
Phosphorus Uptake by Decomposing Leaf Detritus: Effect of Microbial Biomass and Activity,  
W85-05670 1810 2H

**NEWBOULD, P. J.**  
Environmental Impact Assessment of the Strangford Lough Tidal Power Barrage Scheme in Northern Ireland,  
W85-00566 1802 6G

**NEWBURY, R. W.**  
Environmental Impact Prediction and Assessment: The Southern Indian Lake Experience,  
W85-00645 1802 6G

Shoreline Erosion and Restabilization in the Southern Indian Lake Reservoir,  
W85-00632 1802 6G

Southern Indian Lake Impoundment and Churchill River Diversion,  
W85-00631 1802 6G

**NEWCHURCH, E. J.**  
Heavy Metals in the Lower Mississippi River,  
W85-01744 1804 5B

**NEWELL, G.**  
Case History of Industrial Pretreatment in Columbus, Ohio,  
W85-03331 1807 5D

**NEWELL, S. Y.**  
Growth of Bacteria and the Fungus Phaeospheeria Typharum (Desm.) Holm (Eumycota:Ascomycotina) In Salt-Marsh Microcosms in the Presence and Absence of Mercury,  
W85-01163 1803 5C

Relative Contributions of Bacteria and Fungi to Rates of Degradation of Lignocellulosic Detritus in Salt-Marsh Sediments,  
W85-02138 1804 2L

**NEWKIRK, D. D.**  
Chrysotile Asbestos in California Surface Waters: From Upstream Rivers Through Water Treatment,  
W85-00704 1802 5B

**NEWMAN, J. P. JR.**  
Water Quality and the Rotifer Populations in the Atchafalaya River Basin, Louisiana,  
W85-00399 1801 5C

**NEWMAN, P. W. G.**  
Removal of Nitrogen from Wastewater by Soil Percolation with Alternate Flooding and Drying,  
W85-07107 1812 5E

**NEWSOM, J. M.**  
Transport of Organic Compounds Dissolved in Ground Water,  
W85-06829 1812 5B

**NEWSOME, D. H.**  
Water Quality Indices - A Comparison of Experts' Opinions,  
W85-01425 1803 5A

**NEWTON, R. M.**  
Hydrologic Analyses of Acidic and Alkaline Lakes,  
W85-03993 1808 2H

**NEZZOLIY, V. K.**  
Downstream Migration of Young Fishes During the Initial Period of Flow Regulation of the Ili River,  
W85-04089 1808 6G

**NG KEE KWONG, K. F.**  
Nitrogen Leaching from Soils Cropped with Sugarcane under the Humid Tropical Climate of Mauritius, Indian Ocean,  
W85-01294 1803 5B

**NG, S. L.**  
Growth of Enteromorpha linza in Sewage Effluent and Sewage Effluent-Seawater Mixtures,  
W85-01475 1803 5D

**NG, W. J.**  
Two-Phase Anaerobic Treatment Kinetics of Palm Oil Wastes,  
W85-07124 1812 5D

**NGIRANE-KATASHAYA, G. G.**  
Hydrograph Sensitivity to Storm Kinematics,  
W85-05797 1810 2B

**NGUYEN, V. T. V.**  
Stochastic Characterization of Temporal Storm Patterns,  
W85-01686 1804 2B

Stochastic Description of Temporal Daily Rainfall Patterns,  
W85-01712 1804 2B

**NGUYEN, V. U.**  
Transient Two-Dimensional Groundwater Flow,  
W85-00690 1802 2F

**NGUYEN, V. V.**  
Speciation of Antifoulant Organotin Compounds in Water,  
W85-04013 1808 5B

**NI, Y.-H.**  
Effect of Anaerobic Conditions on Activated Sludge Settability,  
W85-05555 1810 5D

**NICHOL, J.**  
Bacterial Degradation of Selected Organics in Natural Waters of Northeastern Minnesota,  
W85-06863 1812 5B

**NICHOLAICHUK, W.**  
Manual for Land Application of Treated Municipal Wastewater and Sludge,  
W85-04213 1808 5D

## AUTHOR INDEX

NILSEN, J. P.

**NICHOLAS, J. R.**  
Water in Sand and Gravel Deposits in McHenry County, Illinois, W85-03907 1808 2K

**NICHOLLS, K. H.**  
Lakewide Odours in Ontario and New Hampshire Caused by Chrysosphaerulina brevitirrita Nich. (Prymnesiophyceae), W85-01467 1803 5B

Phytoplankton of Lake Simcoe During the Ice-Free Periods of 1980-82 and Potential Response to Reduced Phosphorus Loadings, W85-06860 1812 2H

**NICHOLS, D. G.**  
Field Investigation of a Superfund Site, W85-05380 1810 5E

**NICHOLS, R. L.**  
Determination of Arsenite and Arsenate by Differential Pulse Polarography, W85-03412 1807 5A

**NICHOLS, S. A.**  
Macrophyte Community Dynamics in Dredged Wisconsin Lake, W85-02984 1806 4A

**NICHOLS, V. E.**  
Drift Mine Reclamation in Big Four Hollow near Lake Hope, Ohio-A Preliminary Data Report, W85-03950 1808 5G

**NICHOLSON, B. C.**  
Henry's Law Constants for the Trihalomethanes: Effects of Water Composition and Temperature, W85-01124 1803 5F

**NICHOLSON, R. W.**  
Livestock Lagoon Systems for Disposal of Pesticide Wastes, W85-03381 1807 5D

**NICKERSON, E.**  
Chemical Analysis of Cloud Water Collected over Hawaii, W85-00515 1802 2K

**NICKERSON, N. H.**  
Modification of Bog Vegetation by Power Utility Rights-of-way, W85-06606 1812 4C

**NICKLIN, M. E.**  
Assessment of Time Series as a Methodology to Quantify Irrigation Return Flows, W85-00071 1801 4A

**NICOL, K. D.**  
Chlorinated Contaminants in the Niagara River, 1981-1983, W85-03033 1806 5B

**NICOLESCU, D.**  
Influence of the Geothermal Waters on Fishes and Aquatic Invertebrates, in the Plain of Banat (Influenta Apelor Geotermal, din Cimpia Banatului, Asupra Pestilor si Nevertebratelor Acvatice), W85-03532 1807 5C

**NICOLET, E.**  
Space Time Analysis of Hourly Precipitation Measured in the South East of France During the Alpex Campaign (Analyse Spatio-temporelle des Precipitations Horaires Mesurees dans le Sud-Est de la France Lors de la Campagne Alpex), W85-05017 1810 2B

**NICOLSON, N. J.**  
Water Resources of the Thames Basin: Quantitative and Qualitative Aspects, W85-03881 1808 6B

**NIEDZWIEDZ, W. R.**  
Assessment of Urban Development into Coastal Wetlands Using Historical Aerial Photography: A Case Study, W85-00648 1802 6G

**NIELEN, M. W. F.**  
Industrial Wastewater Analysis by Liquid Chromatography with Precolumn Technology and Diode-Array Detection, W85-06257 1812 5A

**NIELL, F. X.**  
Rapid and Sensitive Automated Determination of Phosphate in Natural Waters, W85-05622 1810 5A

**NIELSEN, D. M.**  
Comparison of Sampling Mechanisms Available for Small-Diameter Ground Water Monitoring Wells, W85-06834 1812 2F

**NIELSEN, D. R.**  
Macroporosity to Characterize Spatial Variability of Hydraulic Conductivity and Effects of Land Management, W85-02317 1805 2G

Scaling Soil Water Properties and Infiltration Modeling, W85-02867 1806 2G

**NIELSEN, K.**  
Control of Metal Contaminants in Drinking Water in Denmark, W85-01993 1804 5F

**NIELSEN, P. G.**  
Determination of Chlorophenols in Waste Water Using C18 Reverse-Phase Enrichment Prior to High Resolution Gaschromatography - Mass Spectrometry, W85-06763 1812 5A

**NIELSEN, T. K.**  
Modeling Heavy Metals Transport in an Arctic Fjord System Polluted from Mine Tailings, W85-00267 1801 5B

**NIELSEN, T. S.**  
Comparison of Periphyton Growth on Artificial and Natural Substrates in the Upper Spokane River, W85-04666 1809 2H

**NIEMCZYNOWICZ, J.**  
Dynamic Properties of Rainfall in Lund, W85-06637 1812 2B

Investigation of the Influence of Rainfall Movement on Runoff Hydrograph. Part I - Simulation on Conceptual Catchment, W85-06640 1812 2E

Investigation of the Influence of Rainfall Movement on Runoff Hydrograph. Part II - Simulation on Real Catchments in the City of Lund, W85-06641 1812 2E

Review of Rainfall Data Application for Design and Analysis, W85-01677 1804 2B

**NIEMI, J.**  
Application of the Finneco Model to Lake Pyhäjärvi, W85-06298 1812 2H

**NIEMI, M.**  
Role of Runoff Water Phosphorus in Eutrophication, W85-06294 1812 5B

**NIEMI, O.**  
Economic Effects of River Construction Works, W85-02392 1805 6B

**NIEMINEN, M.**  
Acidification of Water and Extrahepatic Bio-transformation in Fish, W85-02591 1805 5C

**NIERING, W. A.**  
Salt Marsh Vegetation Change in Response to Tidal Restriction, W85-00978 1802 2L

**NIETHAMMER, K. R.**  
Metals in Riparian Wildlife of the Lead Mining District of Southeastern Missouri, W85-05110 1810 5C

Presence and Biomagnification of Organochlorine Chemical Residues in Oxbow Lakes of Northeastern Louisiana, W85-02191 1805 5B

**NIEUWENHUIZE, J.**  
Organochlorine Contamination of the Dutch Delta Region as 'Watched' by Mussels, W85-00571 1802 5A

**NIEWODNICZANSKI, J.**  
Isotope Stratification in High Mountain Glaciers: Examples from the Peruvian Andes and Himalaya, W85-03345 1807 2C

**NIGG, H. N.**  
Fish Mortality Following Application of Phenthaoate to Florida Citrus, W85-00135 1801 5C

**NIGHTINGALE, H. L.**  
Evaluation Technique for Ground Water Quality Beneath Urban Runoff Retention and Percolation Basins, W85-04417 1809 2G

**NIIMI, A. J.**  
Short-Term and Long-Term Effects of Cadmium on Glycogen Reserves and Liver Size in Rainbow Trout (*Salmo gairdneri Richardson*), W85-03228 1807 5C

**NIKANOROV, A. M.**  
Application of Mathematical Models to Large Aquatic Ecosystems, W85-02883 1806 2A

Overview of the US-USSR Joint Agreement on Environmental Protection Related to Prevention of Water Pollution, W85-02881 1806 6E

**NIKINMAA, M.**  
Gill Damage as a Determinant of Residual Oxygen Concentration in the Sealed Jar Test, W85-05015 1810 5A

**NIKOLAEVA, G. M.**  
River Runoff Maps of Some High-Mountain Regions of the World, W85-04151 1808 2E

**NIKOLAEVA, M. D.**  
Hydrochemical Methods in Investigation of Seepage in the Foundation of Structures of the Irkutsk Hydroelectric Station, W85-00450 1801 8A

**NIKOLOVA, M. I.**  
Hydrobiological and Saprobiochemical Alterations in the Tunja River. I. 1955 - 1967 (Tendentii v Izmeneniyata na Khidrobiologichnoto i Saprobiochologichnoto S'toyanie na Reka Tundza. I. 1955-1967 g.), W85-03106 1806 5B

**NIKUNEN, E.**  
Toxic Impact of Effluents from Petrochemical Industry, W85-05812 1810 5C

**NILSEN, E. T.**  
Comparative Water Relations of Phreatophytes in the Sonoran Desert of California, W85-00256 1801 2I

**NILSEN, J. P.**  
Heavy Metal Distribution in Norwegian Acidic Lakes: A Preliminary Record, W85-00873 1802 5C

## AUTHOR INDEX

**NILSEN, J. P.**

Tropical Lakes - Functional Ecology and Future Development: The Need for a Process-Oriented Approach,  
W85-02408 1805 2H

**NILSSON, M.**  
Radioecological Studies of Activation Products Released from a Nuclear Power Plant into the Marine Environment,  
W85-04865 1809 5B

**NILSSON, P.**  
Some Aspects on Reduction of Phosphorus in Soil Treatment Systems,  
W85-05212 1810 5D

**NILSSON, S. I.**  
Forest Growth as a Possible Cause of Soil and Water Acidification: An Examination of the Concepts,  
W85-01452 1803 5B

**NIMZ, C. F.**  
Species Richness in Streams of Different Size from the Same Drainage Basin,  
W85-04665 1809 2H

**NIRMALA, J.**  
Effects of Pentachlorophenol (Na PCP) on Survival, Activity and Metabolism in Rhinomugil corsula (Hamilton), Cyprinus carpio (Linnaeus) and Tilapia mossambica (Peters),  
W85-00990 1802 5C

**NISAMANEEPONG, W.**  
Speciation of Arsenic and Cadmium Compounds by Reversed-Phase Ion-Pair LC with Single-Wavelength Inductively Coupled Plasma Detection,  
W85-03865 1808 5A

**NISBET, I. C. T.**  
Organochlorine Residues in Common Terns and Associated Estuarine Organisms, Massachusetts, USA, 1971-81,  
W85-04861 1809 5B

**NISHIDA, H.**  
Statistical View of Heavy Metal Pollution Index of River Sediment,  
W85-00132 1801 5A

**NISHIDA, S.**  
Dissolved Organic Carbon as a Controlling Factor in Oxygen Consumption in Natural and Man-made Waters,  
W85-00530 1802 5B

**NISHIDA, T.**  
Behavior of Cadmium in Short-Necked Clam,  
W85-05686 1810 5C

**NISHIMURA, K.**  
Studies on Chemical Species Dissolved in Shallow Groundwaters of Arima Rhyolite Strata,  
W85-02251 1805 2K

**NITTMANN, J.**  
Fractal Growth of Viscous Fingers: Quantitative Characterization of a Fluid Instability Phenomenon,  
W85-05854 1811 1B

**NIX, J.**  
Phosphorus Dynamics in an Arkansas Reservoir: The Importance of Seasonal Loading and Internal Recycling,  
W85-06964 1812 2H

**NIX, S. J.**  
Residence Time in Stormwater Detention Basins,  
W85-04968 1809 5D

**NIXON, S.**  
Accumulation of Sediments, Trace Metals (Pb, Cu) and Total Hydrocarbons in Narragansett Bay, Rhode Island,  
W85-03500 1807 5B

**NIXON, S. W.**  
Recovery of a Polluted Estuarine System: A Mesocosm Experiment,  
W85-01046 1802 5B

**NKEDI-KIZZA, P.**  
Equivalence of Two Conceptual Models for Describing Ion Exchange During Transport Through an Aggregated Oxisol,  
W85-02368 1805 2G

**NOACK, K.**  
Utilization of Pit Water at the Janschwalde Super Power Station as a Means of Rational Water Use (Grubenwassereinsatz im Grosskraftwerk Janschwalde als Massnahme der rationalen Wasserverwendung),  
W85-03470 1807 5D

**NOBEL, P. S.**  
Thermal and Water Relations of Roots of Desert Succulents,  
W85-03698 1807 2I

**NOBLE, R. D.**  
Vertical Temperature Distribution in Lakes,  
W85-01651 1804 2H

**NOBLER, G. P.**  
Vertical Distribution of Potentially Pathogenic Free-Living Amoebae in Freshwater Lakes,  
W85-06135 1811 2H

**NOCETI, R. P.**  
Fate of Contaminants During Treatment of H-Coal Process Wastewaters,  
W85-04978 1809 5D

**NOGRADY, T.**  
Succession of Planktonic Rotifer Populations in Some Lakes of the Eastern Rift Valley, Kenya,  
W85-00398 1801 2H

**NOJIRI, Y.**  
Simultaneous Multielement Determination of Trace Metals in Lake Waters by ICP Emission Spectrometry with Preconcentration and Their Background Levels in Japan,  
W85-06738 1812 5A

**NOLAN, C.**  
Heavy Metal Uptake and Intracellular Binding in Isolated Gill Preparations of *Mytilus galloprovincialis* L.,  
W85-04358 1808 5C

**NOLAN, K. M.**  
Contrast in Stream-Channel Response to Major Storms in Two Mountainous Areas of California,  
W85-04836 1809 2J

**NOLLE, S.**  
Organic Water Quality and Other Factors in Poultry Plant Wastewater Renovation and Reuse,  
W85-00557 1802 5D

**NOLT, I.**  
Chemical Analysis of Cloud Water Collected over Hawaii,  
W85-00515 1802 2K

**NOLTING, R. F.**  
River Elbe: Processes Affecting the Behaviour of Metals and Organochlorines During Estuarine Mixing,  
W85-01836 1804 5B

River Weser Processes Affecting the Behaviour of Metals and Organochlorines during Estuarine Mixing,  
W85-01837 1804 5B

**NOMANI, A. A.**  
Acute Toxicity of Chrome Electroplating Wastes to Microorganisms: Adsorption of Chromate and Chromium (VI) on a Mixture of Clay and Sand,  
W85-02921 1806 5C

Pollution in the Ganges River, India,  
W85-01411 1803 5B

**NOONAN, D. C.**  
Constraints to Managing Interstate Aquifer,  
W85-01577 1803 2F

**NORBY, R. J.**  
Flooding and SO<sub>2</sub> Stress Interaction in *Betula papyrifera* and *B. nigra* Seedlings,  
W85-00292 1801 2I

**NORDIN, R. N.**  
Effects of Heavy Metal Contamination of the Aquatic Biota of Buttle Lake and the Campbell River Drainage (Canada),  
W85-07160 1812 5C

**NORHEIM, G.**  
Distribution and Elimination of Hexachlorobenzene, Octachlorostyrene and Decachlorobiphenyl in Rainbow Trout, *Salmo gairdneri*,  
W85-06381 1812 5C

**NORMAN, J.**  
Wastewater Treatment at a Swedish Cardboard Factory: Possible Cost Savings,  
W85-05259 1810 5D

**NORMAN, T.**  
Improving the Performance of Houston's Southwest Wastewater Treatment Plant, U.S.A.,  
W85-03653 1807 5D

**NOROUZIAN, M.**  
Aerobic and Anaerobic Intermediate Storage of Activated Sludge: Efficiency Study,  
W85-03869 1808 5D

**NORQUIST, D. C.**  
Spectral Characteristics of the Global Moisture Distribution and Their Importance in Objective Analysis of Moisture for NWP Models,  
W85-06958 1812 2D

**NORRIS, R.**  
Distribution of Benthic Invertebrates Along a Disturbed Section of the La Trobe River, Victoria: an Analysis Based on Numerical Classification,  
W85-01165 1803 2

**NORRIS, R. H.**  
Ecological Effects of Mine Effluents on the South Esk River, North-eastern Tasmania; III. Benthic Macroinvertebrates,  
W85-00782 1802 5C

Trace Metal Concentrations in Fish from the South Esk River, Northeastern Tasmania, Australia,  
W85-02418 1805 5C

**NORTH, M. J.**  
Uptake and Metabolism by Goldfish *Carassius auratus* of Pentachloro-2-(Chloromethyl Sulphonamido)Diphenyl Ether (6-PCSD), the Major Component and Active Ingredient of the Mothproofing Agent, Eulan WA New,  
W85-03048 1806 5A

**NORTHCOTE, T. G.**  
Limnological Contrasts and Anomalies in Two Adjacent Saline Lakes,  
W85-05755 1810 2H

Recent Trophic Changes in Kootenay Lake, British Columbia, as Recorded by Fossil Diatoms,  
W85-00249 1801 2H

**NORTHCOTT, C. E.**  
Acute and Chronic Toxicities of Arsenic(III) to Fathead Minnows, Flagfish, Daphnids, and an Amphipod,  
W85-02423 1805 5C

**NORTON, M. G.**  
Sewage Sludge Dumping and Contamination of Liverpool Bay Sediments,  
W85-02291 1805 5B

## AUTHOR INDEX

NYHOLM, N.

Water Quality Studies Around the Sewage Sludge Dumping Site in Liverpool Bay, W85-02290 1805 5B

NORTON, S. A. Errors in pH Measurement with Colorimetric Indicators in Low Alkalinity Waters, W85-00992 1802 5A

NORWOOD, D. L. Reaction Products of Aquatic Humic Substances with Chlorine, W85-01206 1803 5F

NOSAL, M. Acid Deposition near a Sour Gas Plant in Southwestern Alberta, W85-06373 1812 5B

NOSOVOVA, O. N. Seepage Regime of the Hydraulic-Fill Dam of the Mingechaur Hydropower Development, W85-03577 1807 8D

NOSS, R. R. Evaluation of the Visibility Criterion of the Massachusetts Sanitary Code for Swimming in Natural Waters, W85-01800 1804 6E

NOTTHAKUN, S. Flocculation Time Optimization in Direct Water Filtration, W85-03724 1807 5D

NOUTSOPOULOS, G. Boussinesq's Equation Solutions for Semi-Infinite Aquifer, W85-02269 1805 2A

NOVAK, A. J. Toxicity of Arsenate and DDT to the Cladoceran Bosmina longirostris, W85-02415 1805 5C

NOVAK, J. T. Inorganic Carbon Limited Growth Kinetics of Some Freshwater Algae, W85-04977 1810 2H

Stabilization of Sludge from an Oxidation Ditch, W85-02575 1805 5E

NOVAK, P. Incipient Motion of Sediment Particles Over Fixed Beds, W85-02931 1806 2J

NOVICK, N. J. Comatabolism of Low Concentrations of Propachlor, Alachlor, and Cycloate in Sewage and Lake Water, W85-06138 1811 5B

Effect of Simulated Acid Precipitation on Nitrogen Mineralization and Nitrification in Forest Soils, W85-02956 1806 5C

NOVIKOV, B. I. Certain Results of Mud Deposit Freshening in the Liman Sasyk (Nekotorye Rezul'taty Opresneniya Illyovykh Otlozhennii Limana Sasyk), W85-06476 1812 2L

NOVOSELSKII, YU. I. Hydrologic and Morphologic Regionalization of Flatland Valley-Type Reservoirs, W85-04105 1808 2H

NOVOSELOV, A. A. Energy Reserve in Organic Matter and in Some Reduced Mineral Compounds of the Black Sea (Zapas Energii v Organicheskikh Veshchestvakh i Nekotorykh Vosstanovlennykh Mineral'nykh Soedineniyakh vod Chernogo Morya), W85-06456 1812 2L

NOVOTNY, J. F. Seasonal and Spatial Distribution of Zooplankton in a Flood Control Reservoir and Tailwater, W85-06984 1812 6G

NOVOTNY, V. Estimating Nonpoint Pollution from Small Urban Watersheds, W85-07055 1812 5B

NOWAKOWA, J. Biological Protection of Impermeable Fly-ash Layers, W85-01447 1803 5G

NOWELL, A. R. M. Effects of Sediment Transport on Deposit Feeding: Scaling Arguments, W85-03875 1808 2J

NOYE, J. Physical Processes and Pollution in the Waters of Spencer Gulf, W85-04763 1809 2L

NRIAGU, J. O. Arylsulphatase Activity in Polluted Lake Sediments, W85-02745 1806 5C

Atmospheric Input of Heavy Metals Chronicled in Lake Sediments of the Algonquin Provincial Park, Ontario, Canada, W85-01104 1802 5B

Bacterial Activity in Sediments of Lakes Receiving Acid Precipitation, W85-03047 1806 2H

Distribution and Isotopic Composition of Sulfur in Lake Sediments of Northern Ontario, W85-05763 1810 5B

Role of Inland Water Sediments as Sinks for Anthropogenic Sulfur, W85-02864 1806 5B

NUCKOLS, J. R. Relationship Between Atmospheric Nitrogen Deposition and the Stream Nitrogen Profile, W85-03084 1806 5B

NULSEN, R. A. Evapotranspiration of Four Major Agricultural Plant Communities in the South-West of Western Australia Measured with Large Ventilated Chambers, W85-06675 1812 2D

NUMATA, M. Ecological Studies of the Mobera-Yatsumi Marsh. Main Physical and Chemical Factors Controlling the Marsh Ecosystem, W85-02381 1805 2L

NUMMEDAL, D. Sediment Transport and Morphology at the Surf Zone of Presque Isle, Lake Erie, Pennsylvania, W85-03349 1807 2J

NUNN, G. Cost-Effective Management - Revenue and Technical Monitoring, W85-04519 1809 6B

NUNN, R. S. Sewage Sludge Dumping and Contamination of Liverpool Bay Sediments, W85-02291 1805 5B

NURNBERG, G. Biological Availability of Soluble Reactive Phosphorus in Anoxic and Oxic Freshwaters, W85-00892 1802 2H

Importance of Internal Phosphorus Load to the Eutrophication of Lakes with Anoxic Hypolimnia, W85-02618 1805 5C

NURNBERG, H. W. Bioaccumulation of Heavy Metals by Bivalves from Lim Fjord (North Adriatic Sea), W85-02471 1805 5B

Ion-Chromatographic Determination of the Anions Cl-, NO<sub>3</sub>- and SO<sub>4</sub><sup>2-</sup> in Rain Water (Ionen-chromatographische Bestimmung der Anionen Cl-, NO<sub>3</sub>- und SO<sub>4</sub><sup>2-</sup> in Regenwasser), W85-06755 1812 5A

Trace Analytical Procedures with Modern Voltammetric Determination Methods for the Investigation and Monitoring of Ecotoxic Heavy Metals in Natural Waters and Atmospheric Precipitates, W85-02306 1805 7B

NUSCH, E. A. Results of Interlaboratory Ringtests Concerning the Determination of Chlorophyll-a in Water (Ergebnisse eines Ringversuchs zur Chlorophyll-a-Bestimmung im Wasser), W85-02755 1806 5A

NUSS, R. F. Response of Plant Species to Burial in Three Types of Alaskan Wetlands, W85-00248 1801 2L

NUSSBAUM, M. T. Development of a Comprehensive Upper Colorado River Basin Model for Analyzing Energy Development Impacts, W85-06323 1812 4A

NUTINI, D. L. Biological Treatability of Photoprocessing Wastewater: Part I, W85-05560 1810 5D

NUTT, S. G. Treatment of Coke Plant Wastewater in the Coupled Predenitrification-Nitritation Fluidized Bed Process, W85-03272 1810 5D

Treatment of Cyanide-Containing Wastewaters by the Copper-Catalyzed SO<sub>2</sub>/Air Oxidation Process, W85-05422 1810 5D

Two-Stage Biological Fluidized Bed Treatment of Coke Plant Wastewater for Nitrogen Control, W85-01655 1804 5D

NUTTER, W. L. Simulation of Herbicide Concentrations in Stormflow From Forested Watersheds, W85-04991 1810 2A

NWANKWOR, G. I. Comparative Study of Specific Yield Determinations for a Shallow Sand Aquifer, W85-03156 1806 2F

NYARY, I. Microelement Content of Some Submerged and Floating Aquatic Plants, W85-04678 1809 2H

NYE, J. C. Treating Pesticide-Contaminated Wastewater; Development and Evaluation of a System, W85-06782 1812 5D

NYE, P. H. Diffusion of Urea, Ammonium and Soil Alkalinity from Surface Applied Urea, W85-04249 1808 2K

NYE, R. L. Historical Perspective on Salinity and Drainage Problems in California, W85-03655 1807 4A

NYHAN, J. W. Erosion of Earth Covers Used in Shallow Land Burial at Los Alamos, New Mexico, W85-01282 1803 5G

NYHOLM, N. Biodegradation of 4-Nitrophenol in Standardized Aquatic Degradation Tests, W85-02944 1806 5B

## AUTHOR INDEX

**NYHOLM, N.**

Ecotoxicological Assays with Algae: Weibull Dose-Response Curves, W85-02348	1805 5C	Quantities of Some Dangerous Substances Discharged to British Coastal Waters, W85-02759	1806 5B	O'NEILL, K. Exploration of a Rigid Ice Model of Frost Heave, W85-05791	1810 2C
Modeling Heavy Metals Transport in an Arctic Fjord System Polluted from Mine Tailings, W85-00267	1801 5B	O'DONNELL, T. P. Potentiometric Mapping from Incomplete Drill-Stem Test Data: Palo Duro Basin Area, Texas and New Mexico, W85-05841	1810 2F	O'NEILL, M. P. Objective Identification of Pools and Riffles, W85-02159	1804 2E
NYIRENDI, L. D. Integrity of Interconnected Water Systems, W85-00611	1802 8B	O'FARRELL, T. Comparing Priority Pollutants in Municipal Sludges, W85-05057	1810 5D	O'NEILL, P. Arsenic Speciation in Soil-Pore Waters From Mineralized and Unmineralized Areas of Southwest England, W85-04662	1809 2K
NYROOS, H. Significance of Water Quality Parameters for Decision-Making in Water Pollution Control - a Case Study: Lake Paijanne in Finland, W85-01416	1803 5G	O'GRADY, D. P. Toxicity of Organic Mixtures Saturated in Water to <i>Daphnia magna</i> . Effect of Compositional Changes, W85-01953	1804 5C	High-Performance Liquid Chromatography with Hydride Generation/Atomic Absorption Spectrometry for the Determination of Arsenic Species with Application to Some Water Samples, W85-07162	1812 5A
NYSTROM, T. Taman Anaerobic Process - For Wastewater from Mechanical Pulp and Paper Production, W85-07010	1812 5D	O'HOP, J. Invertebrate Drift, Discharge, and Sediment Relations in a Southern Appalachian Headwater Stream, W85-00400	1801 2H	O'NEILL, P. E. Effects of Corn Stalk Orientation and Water Content on Passive Microwave Sensing of Soil Moisture, W85-03302	1807 7B
O'BRIEN, G. A. Detailed Model for the Mobility of Arsenic in Lacustrine Sediments Based on Measurements in Lake Ohakuri, W85-05117	1810 5B	O'KEEFE, D. H. Cadmium Uptake by the Water Hyacinth: Effects of Solution Factors, W85-00682	1802 5C	O'NEILL, R. V. Fates of Aromatics Model (FOAM): Description, Application, and Analysis, W85-00260	1801 5B
O'BRIEN, J. P. Aspects of the Ecology of the Fishes of Holymood Pond: A Coastal Lake with Occasional Access to the Sea Located in St. Mary's Bay, Newfoundland, W85-02563	1805 2H	O'KEEFE, P. Causes, Consequences and Remedies of Soil Erosion in Kenya, W85-00129	1801 4D	Parameter Constraints in a Stream Ecosystem Model: Incorporation of a Priori Information in Monte Carlo Error Analysis, W85-01302	1803 2H
O'BRIEN, K. M. Role of Geological and Geophysical Data in Modeling a Southwestern Alluvial Basin, W85-03151	1806 2F	O'LEARY, P. R. Groundwater Quality Protection: Policies and Technical Resources, W85-05381	1810 5G	O'Rourke, P. A. Actual and Potential Yield for Rainfed and Irrigated Wheat in China, W85-01057	1802 3F
O'BRIEN, R. P. Treatment of Contaminated Groundwater with Granular Activated Carbon, W85-00128	1801 5F	O'LOUGHLIN, C. L. Hydrological Regime of Undisturbed Mixed Evergreen Forests, South Nelson, New Zealand, W85-00179	1801 4C	Crop Water Requirements for Rainfed and Irrigated Wheat in China and Korea, W85-06687	1812 6D
O'CONNELL, M. F. Aspects of the Ecology of the Fishes of Holymood Pond: A Coastal Lake with Occasional Access to the Sea Located in St. Mary's Bay, Newfoundland, W85-02563	1805 2H	O'MALLEY, M. L. Human Pathogenic Viruses at Sewage Sludge Disposal Sites in the Middle Atlantic Region, W85-02939	1806 5B	O'SHAUGHNESSY, J. C. Treatment of Beef Slaughtering and Processing Wastewaters using Rotating Biological Contactors, W85-05409	1810 5D
O'CONNELL, R. T. New Method for Oil Tanker Ballast Water Deoiling, W85-05247	1810 5D	O'MARIA, G. T. Modeling Efficient Water Allocation in a Conjunctive Use Regime: The Indus Basin of Pakistan, W85-03550	1807 6F	O'SHAUGHNESSY, P. J. Determination of the Evapotranspiration of E. regnans Forested Catchments Using Hydrological Measurements, W85-06669	1812 2D
O'CONNOR, D. J. Two-Dimensional Mass Transport in Estuaries, W85-03006	1806 2L	O'MELIA, C. R. Origins and Effects of Coagulation in Lakes, W85-04075	1808 2H	O'TOOLE, J. C. Transpiration, Leaf Temperature and Water Potential of Rice and Barnyard Grass in Flooded Fields, W85-01070	1802 2D
Water Quality Analysis of New York Harbor Complex, W85-03801	1808 5B	O'NEIL, E. F. Durability of Reinforced Concrete Beams Exposed to Marine Environment, W85-06986	1812 8F	OAKDEN, J. M. EDTA Chelation and Zinc Antagonism with Cadmium in Sediment: Effects on the Behavior and Mortality of Two Infaunal Amphipods, W85-04084	1808 5B
O'CONNOR, G. A. Cadmium Sorption and Mobility in Sludge-Amended Soil, W85-03097	1806 5E	O'NEIL, E. J. Pesticides in Groundwater Beneath the Central Sand Plain of Wisconsin, W85-02025	1804 5B	OBEREME, K. T. Limits of Determination and Detection of Chlorine, Chlorine Dioxide and Chlorite by the Method of Palin (Bestimmungs- und Nachweisgrenzen der Methode von Palin zur differentiellen Analyse von Chlor, Chlordin, und Chlorit im Trinkwasser), W85-02756	1806 5A
O'CONNOR, J. M. Capping of Contaminated Sediments, W85-00938	1802 5G	O'NEILL, A. Use of Quantitative Analysis of Urine to Assess Exposure to Asbestos Fibers in Drinking Water in the Puget Sound Region, W85-02712	1806 5A	OBERLANDER, P. L. Idealized Ground-Water Flow and Chemical Transport Model (S-PATHS), W85-01532	1803 5B
Evaluation of Capping Operations at the Experimental Mud Dump Site, N.Y. Bight Apex, 1980, W85-00049	1801 5E	O'NEILL, J. Effect of Three Marsh Management Techniques on the Ecology of Irregularly Flooded Chesapeake Bay Wetlands: Vegetation and Water Quality Studies, Parts I and II, W85-05347	1810 4A	OBEYSEKERA, J. T. B. Estimation of Skewness of Hydrologic Variables, W85-02161	1804 2A
Measurement of the Effect of Aroclor 1254 on the Respiration of <i>Gammarus</i> using Potentiometric Respirometry, W85-07122	1812 5C				
O'DONNELL, A. R. Application of the European Communities Directive on Dangerous Substances to List II Substances in the U. K., W85-01399	1803 5G				

## AUTHOR INDEX

OKI, Y.

**OBLED, CH.**  
Dynamics of Intense Rainy Spells over the South-East of the Massif Central - Meteorological Aspects and Hydrological Applications (Dynamique des Episodes Pluvieux Intenses sur le Sud-Est du Massif Central; Aspects Météorologiques et Applications Hydrologiques),  
W85-00391 1801 2B

**OBLINGER, J. L.**  
Comparison of Selective Media for Assay of Coliphages in Sewage Effluent and Lake Water, W85-04258 1808 5A

**OBOT, E. A.**  
Control of *Echinocloa stagnina* (Retz.) P. Beauv. by Harvesting for Dry Season Livestock Fodder in Lake Kainji, Nigeria - A Modelling Approach, W85-03077 1806 4A

**OCHS, C. A.**  
Major Ion Chemistry and Sensitivity to Acid Precipitation of Sierra Nevada Lakes, W85-04789 1809 5C

**OCHS, H. J.**  
Filter Foam - Perfect in Many Fields (Filterschaum - Perfekt in Vielen Bereichen), W85-04632 1809 5F

**OCHS, J.**  
Measuring the Site-Specific Recreation Benefits Resulting From Improved Water Quality: An Upper Bound Approach, W85-05000 1810 6A

**ODA, K.**  
Metals and Synthetic Organic Compounds in Plankton from the Estuary and Harbor Area in Osaka City, W85-04607 1809 5A

**ODA, T.**  
Interrelationship Between Some Environmental Factors of Riverbed Gravels and Pollution Index of Bottom Fauna in the River, W85-03509 1807 5C

**ODAWARA, Y.**  
High-BOD Loading Treatment Using Large-Scale Deep Aeration Tanks, W85-02972 1806 5D

**ODELL, B.**  
Solving the Problem of Rehabilitating Decayed Sewer Systems, W85-04768 1809 8A

**ODEYEMI, O.**  
Effects of a Sewage Lagoon Effluent on the Water Quality of the Receiving Stream, W85-05851 1811 5C

Human Waste Disposal and the Faecal Pollution of the River Niger Delta Waters, W85-03703 1807 5D

**ODGAARD, A. J.**  
Hydraulic Model Study of Pump Sump Design, W85-02454 1805 8C

Shear-Induced Secondary Currents in Channel Flows, W85-01562 1803 2E

**OEHME, C.**  
Support Biologies in Waste Water Technology (Trägerbiologien in der Abwassertechnik), W85-02958 1806 5D

**OESCHGER, H.**  
Sulphate and Nitrate Concentrations in Snow From South Greenland 1895-1978, W85-06801 1812 5B

**OGALLO, L.**  
Temporal Fluctuations of Seasonal Rainfall Patterns in East Africa, W85-05096 1810 2B

**OGATA, M.**  
Organic Sulfur Compounds and Polycyclic Hydrocarbons Transferred to Oyster and Mussel from Petroleum Suspension; Identification by Gas Chromatography and Capillary Mass Chromatography, W85-04496 1809 5C

**OGAWA, H.**  
Effects of Treated Municipal Wastewater on the Early Development of Sargassaceous Plants, W85-03504 1807 5C

Tradeoffs in Water Quality Management, W85-03063 1806 5D

**OGAWA, M.**  
Behavior of Elements in the Takahashi, Japan River Basin, W85-01292 1803 5B

Behaviour of Trace Elements in the Takahashi River Estuary, Japan, W85-00186 1801 2K

**OGAWA, Y.**  
Phytoplankton Diversity in Inland Waters of Different Trophic Status, W85-03506 1807 2H

**OGDEN, J.**  
History and Present Vegetation of the Macrophyte Swamp at Pukepuke Lagoon, W85-03023 1806 2H

**OGDEN, J. R.**  
Cuyahoga Falls: A River Returned to the People, W85-04178 1808 6G

**OGEDENGBE, O.**  
Studies on a Selected Industrial Effluent and the Receiving Stream, W85-03027 1806 5B

Studies on a Selected Industrial Effluent and the Receiving Stream, W85-05031 1810 5D

**OGLE, D. F.**  
On-Line Monitoring Data Replaces Analytical Data, W85-03332 1807 5G

**OGLESBY, J. L.**  
Responses of Developing Estuarine Macrofaunal Communities to Drilling Muds, W85-01845 1804 5C

**OGUGBUAJA, V. O.**  
Analysis of Aqueous Sediments for Heavy Metals, W85-01742 1804 5B

**OGUNKOYA, O. O.**  
Runoff Response to Basin Parameters in Southwestern Nigeria, W85-01169 1803 2E

**OGUNROMBI, J. A.**  
Effects of Baffles on the Performance of Model Waste Stabilization Ponds, W85-01719 1804 5D

**OGURA, N.**  
Behaviour of Proteinaceous Substances in the Estuary of the Tama River, W85-02531 1805 2L

Influences of Human Excrement on Water Quality in the Minami-Asakawa River, W85-00934 1802 5B

**OGUZ, B.**  
Modelling The Runs' Properties of Annual Flows, W85-01172 1803 2E

**OHLE, W.**  
Measurement and Comparative Values of the Short Circuit Metabolism (SCM) of Lakes by

**OKI, Y.**  
POC Relationship of Primary Production of Phytoplankton and Settling Matter, W85-04701 1809 2H

Nutrient Supply of Lake Grebiner See by Atmospheric Precipitation and Surface Run-off from the Watershed Area (Nahrstoffzufuhr des Grebiner Sees durch Atmosphärische Niederschläge und Oberflächenabschwemmung des Einzugsgebietes), W85-00770 1802 2H

**OHM, K.**  
Method to Measure Suspended Load Transports in Estuaries, W85-04675 1809 2L

**OHNSTAD, M.**  
Aggregation of Aquatic Humic Substances, W85-01106 1802 2K

**OHSHIMA, M.**  
Rate of Fenitrothion in Several Developmental Stages of the Killifish (*Oryzias latipes*), W85-02422 1805 5C

**OHTAKE, H.**  
Quantitative Analysis of Phosphorus Cycle in the Shallow Brackish Lake Nakanoumi, Japan, W85-00761 1802 2H

Seasonal and Areal Features of the Lagoonal Environment in Lake Nakanoumi, a Shallow Coastal Lagoon in Japan, W85-01476 1803 6G

**OISHI, S.**  
Effects of Environmental Factors on Toxicity of a Cyanobacterium (*Microcystis aeruginosa*) under Culture Conditions, W85-07134 1812 5C

**OIVANEN, O.**  
Taman Anaerobic Process - For Wastewater from Mechanical Pulp and Paper Production, W85-07010 1812 5D

**OJIAKOR, G. U.**  
Slow-Zone Model for Longitudinal Dispersion in Two-Dimensional Shear Flows, W85-07083 1812 5B

**OKADA, M.**  
Growth Inhibition of Planktonic Algae Due to Surfactants Used in Washing Agents, W85-02427 1805 5C

**OKADA, T.**  
Ion Chromatographic Determination of Silicic Acid in Natural Water, W85-04623 1809 2K

**OKAMOTO, K.**  
Characterization of Sediment Reference Materials by X-Ray Photoelectron Spectroscopy, W85-06250 1812 2H

**OKAMOTO, Y.**  
Determination of Trace Azaarenes in Water by Gas Chromatography and Gas Chromatography-Mass Spectrometry, W85-00165 1801 5A

**OKAZAKI, M.**  
Model System of Bulking and Flocculation in Mixed Culture of *Sphaerotilus* sp. and *Pseudomonas* sp. for Dissolved Oxygen Deficiency and High Loading, W85-07115 1812 5D

**OKEY, R. W.**  
Enhanced Primary Treatment of Pulping Wastewaters, W85-05403 1810 5D

**OKI, Y.**  
Influence of Anionic Surface-active Agents on the Uptake of Heavy Metals by Water Hyacinth (*Eichhornia crassipes*), W85-02781 1806 5C

## AUTHOR INDEX

### OKORONKWO, N.

**OKORONKWO, N.**  
 Effects of a Sewage Lagoon Effluent on the Water Quality of the Receiving Stream, W85-05851 1811 5C

**OKPOKWASILI, G. C.**  
 Numerical Taxonomy of Phenanthrene-Degrading Bacteria Isolated from the Chesapeake Bay, W85-03433 1807 5B

**OKSLYUK, O. P.**  
 Hydrobiological Aspects of Ecological Substitution of Interbasin Water Transfers, W85-04099 1808 5G

**OKUDA, H.**  
 Changes in the Sulfide Content of Bottom Muds in Going from River to Sea, W85-07149 1812 5B

Tentative Assessment of Water Pollution by the Medaka Egg Stationing Method: Aerial Application of Fenitrothion Emulsion, W85-02726 1806 5A

**OKUN, D. A.**  
 Practical Water Treatment for Communities in Developing Countries, W85-01983 1804 5F

**OKUSHIMA, S.**  
 New Numerical Model and Technique for Waterhammer, W85-00727 1802 8B

**OLADIMEJI, A. A.**  
 Effects of Effluents from a Sewage Treatment Plant on the Aquatic Organisms, W85-02955 1806 5C

Long-Term Effects of Arsenic Accumulation in Rainbow Trout, *Salmo gairdneri*, W85-00884 1802 5C

**OLAH, J.**  
 Nitrogen Fixation in the Sediment of Shallow Lake Balaton, a Reservoir and Fishponds, W85-02903 1806 2H

**OLCOTT, J. Z.**  
 Landscape Design Helps Sell Innovative Wastewater Effluent Disposal System, W85-03275 1807 5D

**OLDFIELD, F.**  
 Combined Radiometric and Mineral Magnetic Approach to Recent Geochronology in Lakes Affected by Catchment Disturbance and Sediment Redistribution, W85-01100 1802 2J

Particulate Pollution Monitoring in the Elefsis Gulf: The Role of Mineral Magnetic Studies, W85-01486 1803 5A

**OLDHAM, W. K.**  
 Initial Operating Experiences of a Nutrient Removal Process (Modified Bardenpho) at Kelowna, British Columbia, W85-04045 1808 5D

**OLECHOWSKA, M.**  
 Zonation of Mayflies (Ephemeroptera) in Several Streams of the Tatra Mts and the Podhale Region, W85-00229 1801 2H

**OLEINIK, G. N.**  
 Studies on Destruction of Organic Substance of Higher Aquatic Plants by Laboratory Water Course Models (Izuchenie Destruktsii Organicheskogo Veshchestva Vyshikh Vodnykh Rastenii na Labotornymkakh Modelyakh Vodotokov), W85-06376 1812 2K

**OLESEN, K. W.**  
 Bed Deformation in Curved Alluvial Channels, W85-07033 1812 2J

**OLESZKIEWICZ, J.**  
 Benzol Plant Wastewater Treatment in a Packed-Bed Reactor, W85-05271 1810 5D

**OLIMPIO, J. C.**  
 Low-Level Radioactive-Waste Burial at the Palos Forest Preserve, Illinois: Geology and Hydrology of the Glacial Drift, as Related to the Migration of Tritium, W85-00865 1802 5E

**OLIPHANT, J.**  
 Transport of Water in Frozen Soil: III. Experiments on the Effects of Ice Content, W85-03477 1807 2G

Transport of Water in Frozen Soil: IV. Analysis of Experimental Results of the Effects of Ice Content, W85-04161 1808 2G

**OLIPHANT, J. L.**  
 Effects of Magnetic Particles on the Unfrozen Water Content of Frozen Soils Determined by Nuclear Magnetic Resonance, W85-03093 1806 2G

**OLIVER, B. G.**  
 Chlorinated Contaminants in the Niagara River, 1981-1983, W85-03033 1806 5B

Chlorinated Organic Contaminants on Settling Particulates in the Niagara River Vicinity of Lake Ontario, W85-03661 1807 5B

Uptake of Chlorinated Organics from Anthropogenically Contaminated Sediments by Oligochaete Worms, W85-01490 1803 5B

**OLIVER, J.**  
 Recent Developments in Leak Noise Correlation Techniques, W85-04958 1809 8G

**OLIVER, J. D.**  
 System for Examining the Response of Aquatic Ecosystems to Gradual Chemical Inputs, and Field Application in Okefenokee Swamp, Georgia, W85-06396 1812 5C

**OLIVER, J. S.**  
 EDTA Chelation and Zinc Antagonism with Cadmium in Sediment: Effects on the Behavior and Mortality of Two Infaunal Amphipods, W85-04084 1808 5B

**OLIVIER,**  
 Water Supply Methods for Navigable Waterways; Optimization of a Project with Locks; Pump Stations (Les methodes d'alimentation en eau des voies navigables; Optimisation d'un projet avec écluses; Les stations de pompage), W85-00369 1801 4A

**OLIVIERI, B.**  
 Dewfall and Evapotranspiration Determination During Day- and Nighttime on an Irrigated Lawn, W85-03849 1808 2D

**OLLA, B. L.**  
 Sublethal Effects of Oiled Sediment on the Sand Worm, *Nereis (Neanthes) virens*: Induced Changes in Burrowing and Emergence, W85-04871 1809 5C

**OLMSTED, F. H.**  
 Geohydrology, Aqueous Geochemistry, and Thermal Regime of the Soda Lakes and Upsilon Hogback Geothermal Systems, Churchill County, Nevada, W85-03898 1808 2F

**OLOFF, P. C.**  
 Acephate in Rainbow Trout (*Salmo gairdneri*): Acute Toxicity, Uptake, Elimination, W85-00169 1801 5C

**OLOFFS, P. C.**  
 Hydrolytic and Metabolic Products of Acephate in Water and Mouse Liver, W85-02813 1806 5B

**OLOFIN, E. A.**  
 Climatic Constraints to Water Resource Development in the Sudan-Saharan Zone of Nigeria, W85-06546 1812 6D

**OLRIK, K.**  
 Interactions between Phytoplankton, Zooplankton, and Fish in the Nutrient Rich Shallow Lake Hjarbaek Fjord, Denmark, W85-02564 1805 2H

**OLSEN, A. R.**  
 Methodology for Overland and Instream Migration and Risk Assessment of Pesticides, W85-06989 1812 5B

**OLSEN, C. R.**  
 Inventories and Sorption-Desorption Trends of Radionuclides and Radiocobalt in James River Estuary Sediments, W85-04601 1809 5B

**OLSEN, J.**  
 Quantitative Estimates and Community Structure of Invertebrates in a Macrophyte Rich Stream, W85-06443 1812 2H

**OLSEN, K. H.**  
 Reduction by a Surfactant of Olfactory Mediated Attraction Between Juveniles of Arctic Charr, *Salvelinus alpinus* (L.), W85-06384 1812 5C

**OLSEN, P.**  
 Intensive Survey: Manasquan Estuary, May-September 1978, W85-00818 1802 5A

**OLSHINA, A.**  
 Brackish Groundwater as an Alternative Source of Cooling Water for Nuclear Power Plants in Israel, W85-04599 1809 4B

**OLSON, B. H.**  
 Biofilm Fouling of RO Membranes - Its Nature and Effect on Treatment of Water for Reuse, W85-00712 1802 5D

Effect of Metal-Rich Sewage Sludge Application on the Bacterial Communities of Grasslands, W85-05047 1810 5C

Effect of pH, Application Technique, and Chlorine-to-Nitrogen Ratio on Disinfectant Activity of Inorganic Chloramines with Pure Culture Bacteria, W85-02933 1806 5F

Fluorometric Determination of the DNA Concentration in Municipal Drinking Water, W85-06142 1811 5A

Inorganic Chloramines as Drinking Water Disinfectants: A Review, W85-00705 1802 5F

**OLSON, G. J.**  
 Accumulation and Fate of Tri-n-butyltin Cation in Estuarine Bacteria, W85-02185 1805 5B

Iodomethane as a Potential Metal Mobilizing Agent in Nature, W85-02350 1805 5B

**OLSON, L. J.**  
 Selected Ground-Water Data in Parts of Gilliam, Morrow, and Umatilla Counties, Oregon, W85-00602 1802 7C

## AUTHOR INDEX

OSBORNE, J. A.

**OLSON, R. K.**  
Effects of Canopy Components on Throughfall Chemistry: An Experimental Analysis, W85-02560 1805 2K

**OLSTHOORN, T. N.**  
Power of the Electronic Worksheet: Modeling Without Special Programs, W85-06828 1812 2F

**OLTHOF, M.**  
Benzol Plant Wastewater Treatment in a Packed-Bed Reactor, W85-05271 1810 5D

Iron Oxidation in Industrial Waste Streams, W85-05289 1810 5D

**OLUDIMU, O.**  
Irrigation and Agricultural Development: Some Conceptual and Empirical Considerations, W85-06604 1812 3F

**OMANG, R. J.**  
Streamflow Characteristics of the Yellowstone River Basin, Montana, Through September 1982, W85-01781 1804 2E

**OMAR, M. H.**  
Measurements and Estimates of Potential Evapotranspiration over Egypt, W85-01059 1802 2D

**OMKAR,**  
Insecticide Toxicity to Macrobrachium lamarrei (H. Milne Edwards) (Decapoda, Palaemonidae), W85-02235 1805 5C

Mercuric Chloride Intoxication in Freshwater Prawn, I; Effect on Phosphatases Activity, W85-06016 1811 5C

**ONANKO, YU. L.**  
Comparison of Biological Indication Methods Exemplified by North Ukrainian Water Bodies, W85-04100 1808 2H

**ONDOK, J. P.**  
Heat Balance Components and Evapotranspiration from a Sedge-Grass Marsh, W85-06370 1812 2D

**ONGARO, A.**  
pH of the Atmospheric Precipitation in Venice, Related to Both the Dynamics of Precipitation Events and the Weathering of Monuments, W85-04362 1808 5B

**ONGLEY, E. D.**  
Physical and Geochemical Characteristics of Suspended Solids, Wilton Creek, Ontario, W85-02056 1804 2H

**ONISHI, Y.**  
Methodology for Overland and Instream Migration and Risk Assessment of Pesticides, W85-06989 1812 5B

**ONISTO, L. J.**  
Attraction of Fish to Mercury Vapour Light and Its Application in a Generating Station Forebay, W85-04914 1809 8I

**ONOFOIK, O.**  
Scanning Electron Microscope Studies of Surface Crusts Formed by Simulated Rainfall, W85-02875 1806 2G

**ONSTAD, C. A.**  
Depressional Storage on Tilled Soil Surfaces, W85-03376 1807 2A

Relating Rainfall Erosivity Factors to Soil Loss in Kenya, W85-02322 1805 2J

Tilled Soil Subsidence During Repeated Wetting, W85-03377 1807 2G

**ONUSKA, F. I.**  
Determination of Chlorinated Benzenes in Bottom Sediment Samples by WCOT Column Gas Chromatography, W85-06256 1812 5A

**OOSTERBAAN, R. J.**  
Modern Interferences in Traditional Water Resources in Baluchistan, W85-03705 1807 6B

**OOSTERHUIS, D. M.**  
Leaf Water and Turgor Potential Threshold Values for Leaf Growth of Wheat, W85-03362 1807 2I

Resistances to Water Flow through the Soil-Plant System, W85-00216 1801 2I

**OPALUCH, J. J.**  
Dynamic Aspects of Effluent Taxation under Uncertainty, W85-03888 1808 6C

**OPENHEIMER, L.**  
Statistical Considerations in the Evaluation of Chronic Aquatic Toxicity Studies, W85-03971 1808 5A

**OPPERHUIZEN, A.**  
Environmental Fate and Monitoring of Organic Micropollutants, W85-03284 1807 5A

**OPPERMANN, R.**  
Forecasting of Water Level and Discharge of the Elbe with the Aid of Fuzzy Modelling (Vorschlag von Wasserstand und Durchfluss für die Elbe mit Hilfe einer unscharfen Modellierung), W85-01973 1804 2E

**ORAVA, P. J.**  
State Model for Infiltration, W85-06644 1812 2G

**ORAVAINEN, R.**  
Zinc in Water and Sediments of Two Finnish Lakes, W85-02065 1804 5B

**ORD, W. O.**  
Pollution Control Policies for the Tees Estuary, W85-04525 1809 5G

**OREKHOV, V. V.**  
Effect of the Reservoir Filling Regime on the Stress and Strain State of an Earth-Rock Dam, W85-00445 1801 8B

**OREKHOVSKII, A. R.**  
Effectiveness of Floating Biofilters of Emergent Aquatic Plants in Relation to the Characteristics of Their Formation, W85-04098 1808 5G

**OREMLAND, R. S.**  
Denitrification Associated with Stream Periphyton: Chamber Estimates from Undisrupted Communities, W85-03852 1808 2H

Seasonal Changes in the Chemistry and Biology of a Meromictic Lake (Big Soda Lake, Nevada, U.S.A.), W85-05756 1810 2H

**ORHON, D.**  
Water Quality Management in Sakarya River Basin: I. Planning Phase, W85-01418 1803 5G

**ORIS, J. T.**  
Photoenhanced Toxicity of Anthracene to Juvenile Sunfish (*Lepomis Spp.*), W85-06439 1812 5C

**ORIVUORI, J.**  
Forest Industry Anaerobic Wastewater Treatment and its Future Development, W85-07019 1812 5D

**ORLOB, G. T.**  
Risk-Reliability Programming for Optimal Water Quality Control, W85-01336 1803 5G

**ORLOVA, O. V.**  
Aggregates of Organic Substances in Fresh Waters and Their Role in Nutrition of Filter Feeding Cladocers (Aggregaty Organicheskikh Veshchestv v Presnykh Vodakh i Ich Rol' v Pitani Rachkov-Fil'tratorov), W85-06458 1812 2H

**ORLOVSKI, S.**  
Min-Max Approach to Reservoir Management, W85-03552 1807 4A

**ORLOVSKY, S.**  
Salt Gradient Ponds: Investment Timing Model, W85-03061 1806 3C

**ORMSBY, J. P.**  
Use of SEASAT Synthetic Aperture Radar and LANDSAT Multispectral Scanner Subsystem Data for Alaskan Glaciology Studies, W85-00521 1802 7B

**ORN, C. G.**  
Development of Oxygen Conditions in Lake Zurich from 1936 to 1982 (Entwicklung der Sauerstoffverhältnisse im Zurich-Obersee und im Zurich-Untersee von 1936 bis 1982), W85-02529 1805 2H

**ORR, E. D.**  
Interpretation of Pressure-Depth from Confined Underpressured Aquifers Exemplified by the Deep-Basin Brine Aquifer, Palo Duro Basin, Texas, W85-06507 1812 2F

**ORR, R. J.**  
Accountability Management Brings Revenue Increases, W85-02486 1805 6B

**ORTH, D. J.**  
Evaluation of the Incremental Methodology for Recommending Instream Flows for Fishes, W85-01623 1803 6G

Microhabitat Preferences of Benthic Fauna in a Woodland Stream, W85-00984 1802 2H

**ORTH, R. J.**  
Distribution and Abundance of Submerged Aquatic Vegetation in Chesapeake Bay: An Historical Perspective, W85-05709 1810 5C

**ORTOLANO, L.**  
Water Conservation and Capacity Expansion, W85-01579 1803 3D

**OSANTOWSKI, R.**  
Control Solids in Cooling Water to Cut Makeup Requirements, W85-01538 1803 5D

**OSBORN, H. B.**  
Estimating Precipitation in Mountainous Regions, W85-03794 1808 2B

Stochastic Model of Dimensionless Thunderstorm Rainfall, W85-06505 1812 2B

Storm-Cell Properties Influencing Runoff from Small Watersheds, W85-04330 1808 2E

**OSBORNE, J. A.**  
Phytoplankton Responses to Reduction and Elimination of Submerged Vegetation by Herbicides and Grass Carp in Four Florida Lakes, W85-04857 1809 5G

## AUTHOR INDEX

### OSBORNE, L. L.

**OSBORNE, L. L.**  
Colonization and Recovery of Lotic Epilithic Communities: A Metabolic Approach, W85-02476 1805 2H

**OSBORNE, T. J.**  
Interaction Between Groundwater and Surface Water Regimes and Mining-Induced Acid Mine Drainage in the Stockton-Sand Coulee Coal Field, W85-00583 1802 5B

**OSCARSON, D. W.**  
Dynamics and Mechanisms of Arsenite Oxidation by Freshwater Lake Sediments, W85-02080 1804 5B

**OSE, Y.**  
Adsorption and Desorption of Polydimethylsiloxane, PCBs, Cadmium Nitrate, Copper Sulfate, Nickel Sulfate and Zinc Nitrate by River Surface Sediments, W85-06432 1812 5B

**OSINSKI, J.**  
Resources of the Tug Hill Region, W85-00044 1801 6D

**OSIPOV, A. D.**  
Development of a Manufacturing Method for Precast Elements of Reinforced-Concrete Pipes of the Zagorsk Pumped-Storage Station using Electric Heating of the Concrete Mix, W85-00440 1801 8D

**OSKAM, G.**  
Quality Aspects of the Biesbosch Reservoirs, W85-01979 1804 5G

**OSONUBI, O.**  
Influence of Soil Drought and Partial Waterlogging on Water Relations of *Gmelina arborea* Seedlings, W85-06858 1812 2I

**OSSENBRUGGEN, P. J.**  
Time Series Models for Treatment of Surface Waters, W85-04965 1809 5F

**OSSOFF, S. F.**  
Comparison of Methods of Enumerating Coliforms After UV Disinfection, W85-02938 1806 5A

**OSTENDORF, D. W.**  
Linearized Tidal Friction in Uniform Channels, W85-01556 1803 2L

**OSTER, C. A.**  
Numerical Procedure for Obtaining the Mean Solution and Variance of the Two-Dimensional Stochastic Convection Equation, W85-04159 1808 2A

**OSTER, E. A.**  
Water Resources of Western Douglas County, Oregon, W85-00590 1802 2A

**OSTER, J. D.**  
Management Alternatives: Crop, Water, and Soil, W85-03656 1807 3F

Minimizing Salt in Drain Water by Irrigation Management - Arizona Field Studies with Citrus, W85-03481 1807 3F

Minimizing Salt in Drain Water by Irrigation Management - Leaching Studies with Alfalfa, W85-03483 1807 3F

**OSTERAAS, T.**  
Scandinavian Guidelines and Training Programs for Design, Construction, Operation and Maintenance of Sewerage Treatment Systems in Rural Areas, W85-05219 1810 5D

**Subsurface Adsorption Systems - Frost Problems and Prevention of Frost,** W85-05217 1810 5D

**OSTERKAMP, W. R.**  
Geomorphic and Vegetative Characteristics along Three Northern Virginia Streams, W85-02834 1806 2E

**OSTERMANN, G.**  
Problems in Wastewater Sludge Treatment - Practical Experience in Sewage-Sludge Thickening (Probleme der Abwasserschlammbehandlung Betriebserfahrungen mit der Eindickung von Frischschlamm), W85-03459 1807 5D

**OSTERWALDER, J.**  
Guidelines for Efficiency Scaling Process of Hydraulic Turbomachines with Different Technical Roughnesses of Flow Passages, W85-00194 1801 8C

**OSTLER, W. K.**  
Effects of Increasing Snowpack on a Subalpine Meadow in the Uinta Mountains, Utah, U.S.A., W85-00236 1801 2C

**OSTRIZHNOV, I. D.**  
Dokan Hydroelectric Station in Iraq, W85-00503 1801 8A

**OSTROWERCH, I. A.**  
Automation of the Measurement of Chlorides in Natural and Wastewaters (Die Automatisierung der Messung von Chloriden in Naturlichen Wassern und in Abwassern), W85-03534 1807 7B

**OSTROWSKI, M. W.**  
Effects of Temporal Decomposition on Parameter Estimation for Hydrological Models (Der Einfluss der zeitlichen Untergliederung auf die Parameterschätzung in hydrologischen Modellen), W85-00898 1802 2A

**OSUJI, G. E.**  
Gullies of Imo, W85-03350 1807 2J

**OTAKE, T.**  
Separation of Aromatic Substances from Aqueous Solutions Using a Reverse Osmosis Technique with Thin, Dense Cellulose Acetate Membranes, W85-01313 1803 5D

**OTIS, R. J.**  
Design and Construction of Conventional and Mound Systems, W85-05218 1810 5D

Suitability and Hydraulic Capacity of Different Soils, W85-05211 1810 5D

**OTSUKI, A.**  
Microbial Contribution to the Mesotrophic Ecosystem of the Campbell River Estuary During Summer, W85-04673 1809 2L

Simultaneous Multielement Determination of Trace Metals in Lake Waters by ICP Emission Spectrometry with Preconcentration and Their Background Levels in Japan, W85-06738 1812 5A

**OTT, C. R.**  
Treatment of Apple Processing Wastewater by the Anaerobic Filter Process, W85-05562 1810 5D

**OTTAVIANI, E.**  
Effects of Copper Pollution on *Ictalurus nebulosus* (Effetti Dell'Inquinamento Da Rame Su *Ictalurus nebulosus*), W85-02498 1805 5C

**OTTAWAY, J. M.**  
Suppression of Interferences in the Determination of Lead in Natural and Drinking Waters by Graphite-Furnace Atomic Absorption Spectrometry, W85-05525 1810 5A

**OTTENDORFER, L. J.**  
River Quality Assessment and Monitoring of the Danube - An Example of International Cooperation, W85-01389 1803 6E

**OTTERBURN, M. S.**  
Fuller's Earth and Fired Clay as Adsorbents for Dyestuffs; Equilibrium and Rate Studies, W85-05701 1810 5D

**OTTO, C.**  
Animal Community Structure as a Function of Stream Size, W85-00426 1801 2H

**OTTO, N. E.**  
Herbicides Residues and Environmental Effects from the Experimental Application of Two 2,4-D Formulations to Control Eurasian Watermilfoil, W85-05308 1810 5C

**OU, K. C.**  
Ecological Study of Activated Sludge Settling Property in the Completely Mixed System, W85-04301 1808 5D

**OUCHI, A.**  
Prediction of Red Tide Occurrence by Means of Discriminant Analysis (in Japanese), W85-04605 1809 5C

**OUCHI, S.**  
Response of Alluvial Rivers to Slow Active Tectonic Movement, W85-06517 1812 2J

**OUEDRAOGO, M.**  
Role of the Photoperiod on Drought Adaptation of Cotton (Rôle de la Photoperiode dans l'Adaptation à la Sécheresse des Cotonniers), W85-02336 1805 2I

**OUELLET, M.**  
Isotopic Analyses (18O, 13C, 14C) of Two Meromictic Lakes in the Canadian Arctic Archipelago, W85-01329 1803 2H

**OUTCALT, S. I.**  
Computer Simulation of Buoyancy and Snow-Cover Effects in Palsa Dynamics, W85-00877 1802 2C

**OUTHET, D.**  
Management of Sediment in New South Wales, Australia, W85-04444 1809 4D

**OUTLAW, D. G.**  
Lake Pontchartrain and Vicinity Hurricane Protection Plan; Report 1: Prototype Data Acquisition and Analysis, W85-06939 1812 2H

**OUTRATA, J.**  
Optimization Model for the Economic Control of Reservoir Eutrophication, W85-01112 1802 2H

**OUTTRAM, D. P.**  
Different Approach to Water Quality Sampling, W85-04524 1809 5A

**OVCHINNIKOVA, L. S.**  
Model of the Development of Phytoplankton in the Ucha Reservoir, W85-04097 1808 2H

**OVERATH, H.**  
Limits of Determination and Detection of Chlorine, Chlorine Dioxide and Chlorite by the

## AUTHOR INDEX

PALLER, M. H.

Method of Palin (Bestimmungs- und Nachweisgrenzen der Methode von Palin zur differentiellen Analyse von Chlor, Chlordioxid, und Chlorit im Trinkwasser),  
W85-02756 1806 5A

**OVERBECK, J.**  
Limnological Survey of Three Greek Lakes: Trichonis, Lissimachia and Amvrakia (Ein Limnologischer Überblick von drei Griechischen Seen: Trichonis, Lissimachia und Amvrakia),  
W85-00771 1802 2H

**OVERCASH, M. R.**  
Land Treatment of Wastes: Concepts and General Design,  
W85-06018 1811 5D

Subsurface Drainage Water Quality from Land Application of Swine Lagoon Effluent,  
W85-01196 1803 5E

Swine Lagoon Effluent Applied to 'Coastal' Bermudagrass: II. Effects on Soil,  
W85-06612 1812 5D

Swine Lagoon Effluent Applied to 'Coastal' Bermudagrass: III. Irrigation and Rainfall Runoff,  
W85-06613 1812 5D

**OVERMAN, A. R.**  
Estimating Crop Growth Rate with Land Treatment,  
W85-02824 1806 5D

**OVIATT, C. A.**  
Recovery of a Polluted Estuarine System: A Mesocosm Experiment,  
W85-01046 1802 5B

**OVINK, R. W.**  
Benthic Community Metabolism in Four Temperate Stream Systems: An Inter-Biome Comparison and Evaluation of the River Continuum Concept,  
W85-06792 1812 2H

**OWENS, A.**  
Effects of Aqueous Chemical Environments on Crack Propagation in Quartz,  
W85-00723 1802 8E

**OWENS, I. F.**  
Characteristics of Snowfalls, Snow Metamorphism, and Snowpack Structure with Implications for Avalancheing, Craigieburn Range, New Zealand,  
W85-00113 1801 2C

Controls on Advective Snowmelt in a Maritime Alpine Basin,  
W85-01042 1802 2C

Energy Balance over Melting Snow, Craigieburn Range, New Zealand,  
W85-00181 1801 2C

**OWENS, P. H.**  
Mathematical Modelling of Tidal Currents in the Humber Estuary,  
W85-05516 1810 2L

**OYAMA, G.**  
Pilot Plant Treatment of Swine Wastes by the Deep Shaft Method,  
W85-05411 1810 5D

**OYLER, A. R.**  
Implications of Treating Water Containing Polynuclear Aromatic Hydrocarbons with Chlorine; A Gas Chromatographic-Mass Spectrometric Study,  
W85-01207 1803 5B

**OZBILGIN, M. M.**  
Modification of the Finite-Difference Model for Simulation of Two-Dimensional Ground-Water Flow to Include Surface-Ground Water Relationships,  
W85-00845 1802 2F

**OZER, J.**  
Simulation of Ecological Impacts of the New Outer-Harbour Development in Zeebrugge,  
W85-00565 1802 6G

**OZIMEK, T.**  
Long-Term Changes of the Submerged Macrophytes in Eutrophic Lake Mikolajskie (North Poland),  
W85-02483 1805 5C

**OZIS, U.**  
Turkish Dam Impounds World's Largest Karst Spring,  
W85-04033 1808 8A

**OZOH, P. T. E.**  
Effects of Dyestuff Effluents on Nigeria Macro-Benthic Invertebrates Hippopera nigeriae,  
W85-01457 1803 5C

**OZTURGUT, E.**  
New Method of Wet Density and Settling Velocity Determination for Wastewater Effluent,  
W85-03666 1807 5A

**PAASIVIRTA, L.**  
Testing the Benthic Lake Type Concept Based on Chironomid Associations in Some Finnish Lakes Using Multivariate Statistical Methods,  
W85-04069 1808 2H

**PACES, T.**  
Sources of Acidification in Central Europe Estimated from Elemental Budgets in Small Basins,  
W85-06874 1812 5B

**PACEY, G. E.**  
Automated Iodometric Method for Determination of Trace Chlorate Ion Using Flow Injection Analysis,  
W85-05519 1810 5A

**PACK, D. H.**  
Precipitation Chemistry Probability - The Shape of Things to Come,  
W85-00239 1801 2K

**PADILLA, C. O.**  
Status of the Black Bass Fishery in Lake Mead and a Program Toward Restoration and Enhancement,  
W85-04209 1808 8I

**PADMANABHAN, M.**  
Scale Effects in Pump Sump Models,  
W85-03775 1808 8C

**PADOUR, R.**  
Predicting Treatability of Multiple Organic Priority Pollutant Wastewaters from Single-Pollutant Treatability Studies,  
W85-05280 1810 5D

**PAETZOLD, R. F.**  
Hydraulic Properties of Some Soils with Paralitic Contacts,  
W85-03965 1808 2G

**PAGE, A. L.**  
Utilization of Municipal Wastewater and Sludge on Land,  
W85-00679 1802 5E

**PAGE, I. M.**  
Investigations of Leachate Contamination of Ground and Surface Waters at the Fresh Kills Landfill, New York City,  
W85-05369 1810 5B

**PAGE, P.**  
Isotopic Analyses ( $^{18}\text{O}$ ,  $^{13}\text{C}$ ,  $^{14}\text{C}$ ) of Two Meromictic Lakes in the Canadian Arctic Archipelago,  
W85-01329 1803 2H

**PAGE, R. W.**  
Data for Ground-Water Test Hole Near Butte City, Central Valley Aquifer Project, California,  
W85-01941 1804 7C

Data for Ground-Water Test Hole near Nicolaus, Central Valley Aquifer Project, California,  
W85-01929 1804 7C

**PAGENKOPF, G. K.**  
Chemistry of Montana Snow Precipitation, 1982,  
W85-00072 1801 2K

**PAHL, T. R.**  
Role of Organics in the Subsurface Migration of Radionuclides in Groundwater,  
W85-06775 1812 5B

**PAHWA, S. B.**  
Numerical Simulation of Thermal Energy Storage Experiment Conducted by Auburn University,  
W85-00335 1801 4B

**PAINKE, R. E.**  
Polyelectrolyte Conditioning of Sheffield Sewage Sludge,  
W85-04005 1808 5E

**PAINTER, H. A.**  
Biodegradability of Two Primary Alcohol Ethoxylate Nonionic Surfactants Under Practical Conditions, and the Toxicity of the Biodegradation Products to Rainbow Trout,  
W85-04487 1809 5D

**PAK, H.**  
Vertical Distribution of Suspended Particulate Matter in the Zaire River, Estuary and Plume,  
W85-03675 1807 2L

**PAKHOMOV, O. A.**  
Strength of Infilled Rock Fill,  
W85-00451 1801 8E

**PAL, S. C.**  
Seasonal Distribution of Vibrio paraheemolyticus in Freshwater Environments and in Association with Freshwater Fishes in Calcutta,  
W85-04261 1808 5B

**PALACHEK, R. M.**  
Toxicity of Nitrite to Channel Catfish (*Ictalurus punctatus*), Tilapia (*Tilapia aures*), and Large-mouth Bass (*Micropterus salmoides*): Evidence for a Nitrite Exclusion Mechanism,  
W85-03825 1808 5C

**PALANISAMI, K.**  
Ex Post Evaluation of Flood Control Investments: A Case Study in North Dakota,  
W85-03983 1808 6B

**PALAZZI, E.**  
Influence of Process Variables on the Modelling and Design of a Rotating Biological Surface,  
W85-07116 1812 5D

**PALERMO, M. R.**  
Techniques for Reducing Contaminant Release During Dredging Operations,  
W85-00573 1802 5G

**PALIENKO, I. M.**  
Content of Heavy Metals in Water and in Certain Aquatic Plants of the Danube and Dnieper Mouth Areas (*Soderzhanie Tyazhelykh Metalov v Vode i Nekotorykh Vodnykh Rasteniyakh Vstevykh Oblastei Dunaya i Dnestra*),  
W85-06470 1812 5B

**PALLEMAERTS, M.**  
Judicial Recourse against Foreign Air Polluters: A Case Study of Acid Rain in Europe,  
W85-06529 1812 6E

**PALLER, M. H.**  
Relative Effects of Chlorine and Ammonia from Wastewater Treatment Facilities on Stream Biota,  
W85-06342 1812 5C

## AUTHOR INDEX

**PALLESEN, L.**

**PALLESEN, L.**  
Environmental Intervention Analysis: Wisconsin's Ban on Phosphate Detergents,  
W85-06228 1812 5D

**PALLMANN, G.**  
Rational Water Use in Agriculture, Forestry, and Food Production (Die rationelle Wasserwirtschaftung in der Land-, Forst- und Nahrungsgutswirtschaft),  
W85-03468 1807 3F

**PALMATEER, G.**  
Ultraviolet Disinfection of Secondary Effluent,  
W85-01654 1804 5D

**PALMER, A. J.**  
Upgrading the Performance of a Blast Furnace Scrubber Water Clarifier by Coagulation/Flocculation Optimization,  
W85-05439 1810 5D

**PALMER, C. D.**  
Geochemical Evolution of Groundwater in Sequences of Sedimentary Rocks,  
W85-04269 1808 2K

Geochemical Reactions Associated with Low-Temperature Thermal Energy Storage in Aquifers,  
W85-03425 1807 2F

**PALMER, G. R.**  
Responses of Certain Freshwater Planktonic Algae to Fluoride,  
W85-01176 1803 5C

**PALMER, M. D.**  
Beach Fecal Coliforms,  
W85-01711 1804 5B

Use of Bacteriological Indicators for Swimming Water Quality,  
W85-04765 1809 5A

**PALMER, R. N.**  
Effects of Instream Flow Requirements on Water Supply Reliability,  
W85-06498 1812 6D

**PALMER, W. D.**  
Modeling Impacts of Acid Precipitation for Northeastern Minnesota,  
W85-05320 1810 2K

**PALMISANO, F.**  
Electrochemical Preconcentration Combined with Atomic Absorption Spectrometry for the Determination of Heavy Metals in Water Samples,  
W85-02307 1805 5A

**PALMORK, K. H.**  
Comparative Study on the Fate of the Polychlorinated Biphenyl 2,4,5,2',4',5'-Hexachlorobiphenyl and the Polycyclic Aromatic Hydrocarbon Phenanthrene in Flounder (*Platichthys flesus*), Determined by Liquid Scintillation Counting and Autoradiography,  
W85-03511 1807 5C

**PALOSCIA, S.**  
Microwave Remote Sensing of Plant Water Stress,  
W85-03999 1808 7B

**PALUMBII, S. R.**  
Measuring Intertidal Wave Forces,  
W85-03493 1807 2L

**PAMPALONI, P.**  
Microwave Remote Sensing of Plant Water Stress,  
W85-03999 1808 7B

**PANASENKO, I. N.**  
Changes in Southern Chernozems after Drip Irrigation,  
W85-06750 1812 3F

**PANCORBO, O. C.**  
Gross Alpha and Beta Radioactivities Associated with Aquatic Environments of Upper-East Tennessee Impacted by Industrial and Mining Activities,  
W85-04367 1808 5B

**PANDAY, K. K.**  
Removal of Cr(VI) from Aqueous Solutions by Adsorption on Fly Ash-Wollastonite,  
W85-03407 1807 5D

**PANDEY, A. N.**  
Apportionment of Rainfall in Central Himalayan Forests (India),  
W85-06051 1811 2B

**PANDEY, K.**  
Acute Toxicity of Carbamide and its Long Term Effects on the Growth of Fingerlings of a Tropical Fresh Water Teleost, *Colisa fasciatus* (Bloch and Sch.),  
W85-06658 1812 5C

**PANDEY, R. K.**  
Drought Response of Grain Legumes Under Irrigation Gradient: II. Plant Water Status and Canopy Temperature,  
W85-03355 1807 2I

**PANDEY, R. N.**  
Estimating Water Application Efficiency in Irrigation Checks,  
W85-05930 1811 3F

**PANDHARINATH, N.**  
Case Study of 1981 Flood in the Godavari River,  
W85-05098 1810 2E

**PANDITA, S. N.**  
Effects of Flushing Rate on Phosphorus Retention in an Aquatic Biome,  
W85-07147 1812 2H

**PANESAR, P. S.**  
Effect of the Ratio of Reactor Diameter to Particle Size on the Performance of a Moving Media Reactor,  
W85-07109 1812 5D

**PANIN, G. N.**  
Method of Calculating Local Heat and Moisture Transfer in the Water Body-Atmosphere System,  
W85-04115 1808 2A

**PANKOW, J. F.**  
Migration of Chlorophenolic Compounds at the Chemical Waste Disposal Site at Alkali Lake, Oregon - I. Site Description and Ground-Water Flow,  
W85-02693 1805 5B

**PANT, J. C.**  
Erythrocytic and Leukocytic Responses to Cadmium Poisoning in a Freshwater Fish, *Puntius conchonius* Ham.,  
W85-06167 1811 5C

Mercury-Induced Blood Anomalies in the Freshwater Teleost,  
W85-05692 1810 5C

**PANT, M. C.**  
Species Composition of Zooplankton in Two Kumam Himalayan Lakes (U.P., India),  
W85-06446 1812 2H

Species Composition, Temporal Abundance and Community Structure of Zooplankton in Lake Sat Tal (U.P.), India,  
W85-06401 1812 2H

**PANT, S. C.**  
Organal Damage Caused by Aldicarb to a Freshwater Teleost *Barbus conchonius* Hamilton,  
W85-01091 1802 5C

**PAOLETTI, A.**  
Oligochaeta of the Middle Po River (Italy): Principal Component Analysis of the Benthic Data,  
W85-02774 1806 2H

**PAOLINI, D.**  
Effects of Low-pH Stress on the Morphology and Activity of Bacteria from Lakes Receiving Acid Precipitation,  
W85-02482 1805 5C

**PAPADOPOLI, M.**  
Influence of the Geothermal Waters on Fishes and Aquatic Invertebrates, in the Plain of Banat (Influenta Apelor Geotermale, din Cimpia Banatului, Asupra Pestilor si Nevertebratelor Acvatice),  
W85-03532 1807 5C

**PAPADOPOULOS, A. S.**  
General Stochastic Model for Predicting BOD and DO in Streams,  
W85-05443 1810 5B

Stochastic Model for BOD and DO in Streams When the Velocity is Random and Distance-Dependent,  
W85-01676 1804 5B

**PAPAGEORGIOU, D.**  
Alternative Approach to Linear and Nonlinear Stability Calculations at Finite Reynolds Numbers,  
W85-03749 1807 8B

**PAPAGIANAKIS, A. T.**  
Steady State Model for Flow in Saturated-Unsaturated Soils,  
W85-03424 1807 2F

**PAPATHANASSIADIS, T.**  
Boussinesq's Equation Solutions for Semi-Infinite Aquifer,  
W85-02269 1805 2A

**PAPATHANASSIOU, E.**  
Effects of Cadmium Ions on the Ultrastructure of the Gill Cells of the Brown Shrimp *Crangon crangon* (L.) (Decapoda, Caridea),  
W85-05875 1811 5C

**PAPENDICK, R. I.**  
Freeze-Thaw and Consolidation Effects on Strength of a Wet Silt Loam,  
W85-06082 1811 2J

Infiltration Rate of Slot Mulches: Measurement and Numerical Simulation,  
W85-02868 1806 2G

**PAPOFF, P.**  
Electrochemical Speciation and Determination of Organometallic Species in Natural Waters,  
W85-02309 1805 5A

Simultaneous Determination of Arsenic, Selenium, Tin and Mercury by Non-Dispersive Atomic Fluorescence Spectrometry,  
W85-06570 1812 5A

**PAQUIN, J. L.**  
Study of Mutagenic Activity in Water in a Progressive Ozonation Unit (Etude du Caractere Mutagene de l'Eau dans une Filiere de Production d'ozonation Estagée),  
W85-01987 1804 5F

**PARABUCHEV, I. A.**  
Engineering-Geologic Assessment of the Chalk Strata of the Tabqa Hydroelectric Station on the Euphrates River with Consideration of Operating Data,  
W85-00506 1801 8A

New Problems and Methods of Engineering-Geological Evaluation of Foundations of Large Dams,  
W85-00477 1801 8A

## AUTHOR INDEX

PASCIK, I.

**PARAMESWARAN, K. V. M.**  
Proline Accumulation in the Grains, Floral Organs and Flag Leaves of Wheat and Barley in Response to Variations in Water and Nitrogen Supply,  
W85-05919 1811 2I

Studies on the Nitrogen and Water Relations of Wheat, II. Effects of Varying Nitrogen and Water Supply on Growth and Grain Yield,  
W85-05167 1810 2I

**PARE, J.-J.**  
Seepage Through Till Foundations of Dams of the Eastmain - Opinaca - La Grande Diversion,  
W85-03418 1807 2F

Stress-Deformation Predictions for the LG 4 Main Dam,  
W85-00141 1801 8D

**PARENOV, V. D.**  
Methods of Determining the Stress State of Rock Masses at Construction Sites of Hydraulic Structures,  
W85-06590 1812 8E

**PARIS, E.**  
River Bed Response to Man-Made Changes,  
W85-01535 1803 2J

**PARISH, R. C.**  
Le Marston Purification Lake: Operational and River-Quality Aspects,  
W85-04458 1809 5G

**PARISI, F.**  
Influence of Process Variables on the Modelling and Design of a Rotating Biological Surface,  
W85-07116 1812 5D

**PARKER, C. R.**  
Quantity and Quality of Seston in an Impounded and a Free-Flowing River in Virginia, U.S.A.,  
W85-06791 1812 2H

**PARKER, D. B.**  
Effects of Acephate (Orthene) on Development and Survival of the Salamander, *Ambystoma gracile* (Baird),  
W85-00170 1801 5C

**PARKER, D. S.**  
Effect of Plastic Media Configuration on Trickling Filter Performance,  
W85-02576 1805 5D

**PARKER, G. G. JR.**  
Selected Bibliography of Water Resources Publications for Mississippi,  
W85-02033 1804 10C

**PARKER, G. W.**  
Time of Travel and Dispersion Study in the Androscoggin River Basin, Maine,  
W85-03911 1808 2E

**PARKER, J. C.**  
Comparison of Field- and Laboratory-Measured and Predicted Hydraulic Properties of a Soil with Macropores,  
W85-04617 1809 2G

Flux-Averaged and Volume-Averaged Concentrations in Continuum Approaches to Solute Transport,  
W85-02153 1804 2F

**PARKER, J. D.**  
Using Polymers with Direct Filtration,  
W85-06584 1812 5F

**PARKER, J. G.**  
Spatial and Temporal Trends in Heavy Metal Concentrations in Mussels from Northern Ireland Coastal Water,  
W85-01901 1804 5A

Structure and Chemistry of Sediments in Belfast Lough, A Semi-enclosed Marine Bay,  
W85-00654 1802 5B

**PARKER, R. C.**  
Limnology of a Perturbed Highly Saline Canadian Lake,  
W85-04056 1808 2H

**PARKHURST, D. F.**  
Decision Analysis for Toxic Waste Releases,  
W85-01157 1803 5C

**PARKHURST, M. A.**  
Methodology for Overland and Instream Migration and Risk Assessment of Pesticides,  
W85-06989 1812 5B

**PARKIN, G. F.**  
Anaerobic Biological Waste Treatment,  
W85-03763 1807 5D

Response of Methane Fermentation to Continuous Addition of Selected Industrial Toxicants,  
W85-05288 1810 5D

**PARKIN, T. B.**  
Temporal Response of Soil Denitrification Rates to Rainfall and Irrigation,  
W85-05187 1810 2G

**PARKINSON, R. J.**  
Nature of the Tile-Drain Outfall Hydrograph in Heavy Clay Soils,  
W85-01614 1803 2G

Wetting and Drying of a Grazed and Ungrazed Clay Soil,  
W85-04250 1808 2G

**PARKS, J. W.**  
Dissolved and Suspended Mercury Species in the Wabigoon River (Ontario, Canada): Seasonal and Regional Variations,  
W85-02091 1804 5B

**PARLANGE, J.-Y.**  
Flux and Water Content Relation at the Soil Surface,  
W85-06538 1812 2G

Interpretation of Leaching under Multiple Fertilizer Applications,  
W85-06564 1812 5B

Optimal Prediction of Saturation and Wetting Fronts during Trickle Irrigation,  
W85-00751 1802 2G

Similarity and First-Integral Solutions for Air and Water Diffusion in Soils and Comparison with Optimal Results,  
W85-04343 1808 2G

Theory of Solute Transport in Soils from the Method of Characteristics,  
W85-05937 1811 2G

Water and Air Movement in Soils: An Application of Brutsaert's and Optimization Techniques,  
W85-03094 1806 2G

**PARLIAMENT, C. J.**  
Measurement of Operationally Defined Lead Fractions in Sediments from Several Lakes,  
W85-02632 1805 5B

**PARLIMAN, D. J.**  
Ground-water Quality in the Western Snake River Basin, Swan Falls to Glenns Ferry, Idaho,  
W85-01784 1804 2F

**PARMAR, S.**  
Loosdrecht Lakes Restoration Project, an Introduction,  
W85-04544 1809 2H

**PARMAR, M. L.**  
Transport Studies of Multielectrolyte Solutions Across a Sintered Disc Impregnated with Cellulose Acetate,  
W85-05035 1810 3A

**PARR, A. D.**  
Field Determination of Aquifer Thermal Energy Storage Parameters,  
W85-00355 1801 2F

**PARSI, E. J.**  
Reference Plant for High Temperature Electrodialysis Desalting of Seawater,  
W85-00608 1802 3A

**PARSONS, J. E.**  
Stream Water Levels Affect Field Water Tables and Corn Yields,  
W85-04726 1809 2F

**PARSONS, T. R.**  
Experimental Marine Ecosystem Response to Crude Oil and Corexit 9527: Part 2 - Biological Effects,  
W85-04875 1809 5C

Frontal Zone Analysis at the Mouth of a Fjord - Jervis Inlet, British Columbia,  
W85-06876 1812 2L

**PART, P.**  
Availability of Cadmium to Perfused Rainbow Trout Gills in Different Water Qualities,  
W85-06729 1812 5C

Influence of Surfactants on Gill Physiology and Cadmium Uptake in Perfused Rainbow Trout Gills,  
W85-06741 1812 5C

**PARTHASARATHY, B.**  
Droughts over Peninsular India During 1861-1980 and Associated Circulation Features,  
W85-05082 1810 2B

**PARTHASARATHY, N.**  
Importance of Speciation Methods in Analytical Control of Water Treatment Processes With Application to Fluoride Removal From Waste Waters,  
W85-04485 1809 5A

**PARTHENIADES, E.**  
Interfacial Resistance in Stratified Flows,  
W85-01502 1803 8B

**PARDIGGE, K.**  
Isolation of *Aeromonas hydrophila* from a Metropolitan Water Supply: Seasonal Correlation with Clinical Isolates,  
W85-02596 1805 5F

**PARTRIDGE, R. M.**  
Satellite-Tracked Current Drifters in Lake Michigan,  
W85-01760 1804 7B

**PARULEKAR, A. H.**  
Effect of Domestic Sewage on Sand Beach Meiofauna at Goa, India,  
W85-00423 1801 5C

**PARUNGO, F.**  
Chemical Analysis of Cloud Water Collected over Hawaii,  
W85-00515 1802 2K

**PASANEN, P.**  
Acidification of Water and Extrahepatic Bio-transformation in Fish,  
W85-02591 1805 5C

**PASCHETTO, J.**  
Hand Calculator Program for Evaluating Theis Parameters from a Pumping Test,  
W85-00332 1801 4B

**PASCHKE, N. W.**  
Buoyant Contaminant Plumes in Groundwater,  
W85-02660 1805 5B

**PASCIK, I.**  
Two-Step Nitrification of Ammonia-Rich Waste Water,  
W85-03647 1807 5D

## AUTHOR INDEX

**PASCOE, D.**

**PASCOE, D.**  
Studies on the Acute Toxicity of Pollutants to Freshwater Macroinvertebrates; 1. Cadmium, W85-06399 1812 5C

Studies on the Acute Toxicity of Pollutants to Freshwater Macroinvertebrates, 2. Phenol, W85-06393 1812 5C

**PASHINSKI, D. J.**  
Tidal Phase Control of Sediment Discharge from the Yangtze River, W85-02292 1805 2J

**PASQUALE, J. J.**  
Fluxes of Heavy Metals in Delaware River Freshwater Tidal Wetlands, W85-01805 1804 5B

**PASSINO, D. R. M.**  
Toxicity of Arsenate and DDT to the Cladoceran Bosmina longirostris, W85-02415 1805 5C

**PASSINO, R.**  
Sludge Dewatering in a Conventional Plant with Phosphorus Removal - I; Analysis of Additional Costs, W85-04970 1810 5D

Sludge Dewatering in a Conventional Plant with Phosphorus Removal - II; Study on Centrifuge and Filter-Press Performance, W85-04971 1810 5D

**PASTERIS, P. A.**  
Standard Hydrologic Exchange Format (SHEF), W85-03060 1806 7C

**PASTERNAK, D.**  
Irrigation with Brackish Water Under Desert Conditions; I. Problems and Solutions in Production of Onions (*Allium cepa L.*), W85-06282 1812 3C

**PASTERNAK, P. S.**  
System of Practices for Preventing Water by Agricultural Chemicals, W85-04619 1809 5G

**PASTORAK, R. A.**  
Effects of Sewage Pollution on Coral-Reef Communities, W85-05714 1810 5C

**PASZTO, P.**  
Wastewater Purification as Related to the Study of a River System (Abwasserreinigung in Verbindung mit der Untersuchung eines Flusssystems), W85-01885 1804 5D

**PATALAS, K.**  
Effects of Impoundment and Diversion on the Crustacean Plankton of Southern Indian Lake, W85-00637 1802 6G

Environmental Impact Prediction and Assessment: The Southern Indian Lake Experience, W85-00645 1802 6G

Mid-Summer Mixing Depths of Lakes of Different Latitudes, W85-02606 1805 2H

**PATCHING, J. W.**  
Fluxes of Organic Carbon in a Fjord on the West Coast of Ireland, W85-02656 1805 2L

**PATE, D. L.**  
Water Quality of Belton Lake, Central Texas, W85-00622 1802 5A

**PATEL, B.**  
Effect of Environmental Parameters on Lysosomal Marker Enzymes in the Tropical Blood Clam *Anadara granosa*, W85-06522 1812 5C

Heavy Metals in the Bombay Harbour Area, W85-04892 1809 5C

Sponge Sentinel of Heavy Metals, W85-06431 1812 5A

**PATEL, G. N.**  
Spatial and Seasonal Variations of Phosphate Solubilizing Bacteria in Fish Ponds of Varying Fish Farming Managements, W85-03233 1807 2H

**PATEL, M. A.**  
Pilot Plant Demonstration of Biological Phosphorus Removal, W85-01657 1804 5D

**PATEL, S.**  
Effect of Environmental Parameters on Lysosomal Marker Enzymes in the Tropical Blood Clam *Anadara granosa*, W85-06522 1812 5C

Heavy Metals in the Bombay Harbour Area, W85-04892 1809 5C

Sponge Sentinel of Heavy Metals, W85-06431 1812 5A

**PATEMAN, D. R.**  
Dispersion of Marked Fluid in Reservoirs, W85-04154 1808 2H

**PATERSON, B. A.**  
Relationships between Saturated Hydraulic Conductivity and Some Physical and Chemical Properties, W85-00339 1801 2G

**PATERSON, C. G.**  
Preliminary Organic Carbon Budget for a Small Dystrophic Lake in Maritime Canada, W85-00989 1802 2H

**PATERSON, I. S.**  
Chemical Composition of Rainfall and Wet Deposition over Northern Britain, W85-03295 1807 5B

**PATHAK, C. S.**  
Comparative Performance of Two Runoff Models on Grassland Watersheds, W85-01183 1803 2A

**PATHAK, P. C.**  
Apportionment of Rainfall in Central Himalayan Forests (India), W85-06051 1811 2B

**PATHAK, S.**  
Investigation of Trace Metals by Stripping Voltammetry in the Effluent of Bathinda Thermal Power Station, W85-05011 1802 5A

**PATOCZKA, J.**  
Kinetics of the Desorption of Ammonia from Water by Diffused Aeration, W85-03299 1807 5D

**PATRIC, J. H.**  
Erosion on Very Stony Forest Soil During Phenomenal Rain in Webster County, West Virginia, W85-06967 1812 2J

**PATRIC, W.**  
Low-Head Hydropower for Local Use, W85-04620 1809 6B

**PATRICK, D. M.**  
Engineering Geology and Geomorphology of Streambank Erosion; Report 2: Yazoo River Basin Uplands, Mississippi, W85-06996 1812 2J

Geological and Seismological Investigations at Erie Dam, Idaho, W85-06966 1812 8E

**PATRICK, J. M. JR.**

Acute Toxicity, Bioconcentration, and Persistence of AC 222,705, Benthiocarb, Chlorpyrifos, Fenvalerate, Methyl Parathion, and Permethrin in the Estuarine Environment, W85-00163 1801 5C

**PATRICK, P. H.**

Attraction of Fish to Mercury Vapour Light and Its Application in a Generating Station Forebay, W85-04914 1809 8I

**PATRICK, W. H. JR.**

Fate of Riverine Nitrate Entering an Estuary: I. Denitrification and Nitrogen Burial, W85-06412 1812 5B

Fixation and Mobilization of Antimony in Sediments, W85-05975 1811 5B

**PATRITI, G.**

Remarks on the Structure of Zooplanktonic Populations in the Sewage Discharge Zone of Marseille-Cortiou (Remarques sur la Structuration des Populations Zooplanctoniques dans la Zone de l'Emissaire de Marseille-Cortiou), W85-02537 1805 5C

**PATRY, G. G.**

Linear Programming Model for the Control of Combined Sewer Systems with Off-Line Storage Facilities, W85-04576 1809 5G

Parameter Identification of Time-Varying Noisy Difference Equations for Real-Time Urban Runoff Forecasting, W85-01167 1803 2E

Sensitivity and Application of Difference Equation Models to Real-Time Urban Runoff Forecasting, W85-01168 1803 2E

Two-Stage Urban Runoff Forecast Model, W85-03065 1806 2E

**PATTEN, B. C.**  
System Theory Formulation of Site-Specific Water Quality Standards and Protocols, W85-02340 1805 5C

Water Enviros of Okefenokee Swamp: An Application of Static Linear Environ Analysis, W85-01301 1803 2L

**PATTERSON, C.**  
A/C (Araphidinae/Centrales) Ratio in High and Low Alkalinity Lakes in Eastern Minnesota, W85-01461 1803 2H

**PATTERSON, G. G.**  
Effect of the Proposed Cooper River Rediversion on Sedimentation in Charleston Harbor, South Carolina, W85-00846 1802 4D

**PATTERSON III, W. A.**  
Role of Forestry in Dry Africa, W85-05467 1810 4D

**PATTERSON, J. C.**  
Classification and Dynamic Simulation of the Vertical Density Structure of Lakes, W85-02222 1805 2H

Model of the Vertical Mixing in Lake Erie in Summer, W85-01328 1803 2H

**PATTERSON, J. W.**  
Development and Validation of a Waste Strength Equalization Basin Design Technique, W85-05574 1810 5D

Distribution of Cadmium and Nickel in Activated Sludge Systems, W85-05428 1810 5D

AUTHOR INDEX

PEKIN, T.

Metals Distributions in Activated Sludge Systems, W85-01737 1804 5D

PATTISON, C. L. Electric Drives - Types and Choices, W85-03019 1806 8C

PATTON, P. C. Sediment Storage and Terrace Formation in Coyote Gulch Basin, South-Central Utah, W85-04646 1809 2J

PATWARDHAN, S. V. Growth Studies of *Azolla pinnata* RBr. in a Permanent Pond, W85-05447 1810 5D

PAUL, J. F. Simulation Modeling as a Means of Studying Large Aquatic Ecosystems, W85-02884 1806 2A

Turbidity in the Western Basin of Lake Erie, W85-00512 1802 5B

PAUL, L. Interactions between Light Situation, Depth of Mixing and Phytoplankton Growth during the Spring Period of Full Circulation, W85-02568 1805 2H

PAUL, P. N. Sewage Treatment in Abu Dhabi, W85-04009 1808 5D

PAULOS, L. M. Changes in Bluegill Activity as a Monitor of Acute Benzene Exposure, W85-01088 1802 5A

PAULSON, D. J. Crossflow Membrane Technology and its Applications, W85-05506 1810 5D

PAULSON, E. G. Gravity Filtration for Reduction of Suspended Metals in a Lime Precipitation Treatment System, W85-05235 1810 5D

PAULSON, L. J. Limnology in Reservoirs on the Colorado River, W85-01812 1804 2H

PAULSON, Q. F. Guide to North Dakota's Ground-Water Resources, W85-01824 1804 2F

PAULSON, R. W. Development of Earth Satellite Technology for the Telemetry of Hydrologic Data, W85-02989 1806 7B

PAUTOVA, V. N. Chlorophyll a in Water of Lake Baikal (Khlorofilla v Vode oz. Baikala), W85-06483 1812 5B

Elodea in Lake Baikal (Elodeya Kanadskaya v oz. Baikala), W85-06380 1812 2H

PAVLOV, D. S. Selecting Sites of Projected Fish Passes, W85-00159 1801 8I

PAWLEY, J. D. Managing Summer Lawn Irrigation Demands: A Water Use Index, W85-04694 1809 3D

PAWLIK-DOBROWOLSKI, J. Stream Ecosystems in Mountain Grassland (West Carpathians); 2. Hydrological Characteristics, W85-02513 1805 2E

PAYER, F. S. Phosphorus Renovation of Wastewater by Overland Flow Land Application, W85-00076 1801 5D

PAYMENT, P. Relative Resistance to Chlorine of Poliovirus and Coxsackievirus Isolates from Environmental Sources and Drinking Water, W85-06147 1811 5F

PAYNE, F. C. Predicting Concentration of Total Phosphorus and Chlorophyll a in a Lake with Short Hydraulic Residence Time, W85-06789 1812 2H

PAYNE, F. G. Ecological Monitoring of Aqueous Effluents from Petroleum Refineries, W85-05582 1810 5A

PEACH, D. W. Use of Resistivity and Gamma Logging in Lithostratigraphical Studies of the Chalk in Lincolnshire and South Humberside, W85-03772 1808 7B

PEACOCK, R. S. Effective Manganese Removal Using Lime as an Additive, W85-03619 1807 5D

PEAKE, D. A. Implications of Treating Water Containing Polynuclear Aromatic Hydrocarbons with Chlorine; A Gas Chromatographic-Mass Spectrometric Study, W85-01207 1803 5B

PEARCE, A. J. Hydrological Regime of Undisurbed Mixed Evergreen Forests, South Nelson, New Zealand, W85-00179 1801 4C

PEARCE, D. B. Fate of Phosphorus and Nitrogen in Ponds Receiving Highway Runoff, W85-00748 1802 5B

PEARCE, F. CEGB Left out in the Rain, W85-06569 1812 5B

PEARCE, R. A. Remedial Measures for Debris Flows at the Agassiz Mountain Institution, British Columbia, W85-03426 1807 2J

PEARMAN, J. L. Water Resources Data, Georgia, Water Year 1982, W85-01938 1804 2E

PEARSON, H. W. Study of the Copper-Complexing Compounds Released by Some Species of Cyanobacteria, W85-01725 1804 5B

PEARSON, R. G. River Hull, a Northern English Chalk Stream: The Zonation of the Macro-Invertebrate Fauna with Reference to Physical and Chemical Features, W85-00627 1802 2H

Temporal Changes in the Composition and Abundance of the Macro-Invertebrate Communities of the River Hull, W85-01371 1803 6G

PEARSON, W. H. Sublethal Effects of Oiled Sediment on the Sand Worm, *Nereis (Neanthes) virens*: Induced Changes in Burrowing and Emergence, W85-04871 1809 5C

PEART, D. B. Quality-Assurance Data for Routine Water Analysis in the Laboratories of the U.S. Geological Survey for Water-Year 1982, W85-01768 1804 7C

PECCI, K. J. Ecosystem Definition and Community Structure of the Macrobenthos of the NEMP Monitoring Station at Pigeon Hill in the Gulf of Maine, W85-05580 1810 5L

PECHER, R. Overflow Data of Rainwater Discharge Systems Determined From Run Off Simulation of Pluviograph Records, W85-01698 1804 2E

PECK, J. H. Bibliography to Upper Mississippi River Aquatic and Wetland Plant Literature, W85-06871 1812 2H

PECKENPAUGH, J. M. Hydrogeology of Parts of the Central Platte and Lower Loup Natural Resources Districts, Nebraska, W85-03905 1808 2F

PEDERSEN, D. Environmental Fate of a Dispersed Ekofisk Crude Oil in Sea-Immersed Plastic Columns, W85-02431 1805 5B

PEDERSEN, K. Modeling Heavy Metals Transport in an Arctic Fjord System Polluted from Mine Tailings, W85-00267 1801 5B

PEDERSEN, T. A. Landscape Design Helps Sell Innovative Wastewater Effluent Disposal System, W85-03275 1807 5D

PEDERSEN, T. F. Intertidal Water Metabolite Chemistry in a Marine Mine Tailings Deposit, Rupert Inlet, B.C., W85-00955 1802 5B

PEDROS-ALIO, C. Zooplankton Dynamics in Lake Mendota: Short-term Versus Long-term Changes, W85-04897 1809 2H

PEER, M. M. Effects of Pentachlorophenol (Na PCP) on Survival, Activity and Metabolism in *Rhinomugil corsula* (Hamilton), *Cyprinus carpio* (Linnaeus) and *Tilapia mossambica* (Peters), W85-00990 1802 5C

PEFFER, J. R. Fly Ash Disposal in a Limestone Quarry, W85-00309 1801 5B

PEGUEGNAT, W. E. Application of the Biotal Ocean Monitor System to a Study of the Impacts of Ocean Dumping of Dredged Material in the New York Bight, W85-00051 1801 5C

PEICHL, L. Effects of Dichlobenil and Atrazine to the Population Density of Zooplankton in an Aquatic Outdoor System (Wirkung von Dichlobenil und Atrazin auf die Populationsdichte von Zooplankton in einem aquatischen Freilandystem), W85-02739 1806 5C

Longterm Effects of the Herbicides Atrazine and Dichlobenil upon the Phytoplankton Density and Physico-chemical Conditions in Compartments of a Freshwater Pond, W85-01967 1804 5C

PEIRAVI, A. Integrity of Interconnected Water Systems, W85-00611 1802 8B

PEIRIS, N. D. Matara Water Supply Project in Sri Lanka, W85-02013 1804 5F

PEKIN, T. Air Stripping of Trace Volatile Organics from Wastewater, W85-05291 1810 5D

## AUTHOR INDEX

**PELIGRY, P.**

Water Decade (La Decennie de l'Eau),  
W85-01984 1804 6B

**PELIPENKO, M. YU.**  
Use of Zeolite to Remove Toxic Substances from Nitrogen Metabolism of Fishes,  
W85-02281 1805 5F

**FELL, M.**  
Reduction of Nitrogen,  
W85-05213 1810 5D

Reduction of Organic Matter with Focus on the Clogging Phenomenon,  
W85-05214 1810 5D

**PELLETIER, B. R.**  
Comparison of Sediment Energy-Texture Relationships in Marine and Lacustrine Environments,  
W85-02058 1804 2J

**PELLETT, S.**  
Distribution of *Pseudomonas aeruginosa* in a Riverine Ecosystem,  
W85-00100 1801 5B

**PELLIZZARI, E.**  
Personal Exposure to Volatile Organic Compounds; I. Direct Measurements in Breathing-Zone Air, Drinking Water, Food, and Exhaled Breath,  
W85-03041 1806 5A

**PELOQUIN, R. A.**  
Aquatic Pathways Model to Predict the Fate of Phenolic Compounds,  
W85-04222 1808 5B

**PEMBERTON, E. L.**  
Computing Degradation and Local Scour,  
W85-04934 1809 2J

**PENCHEN D'ANGELO, A. M.**  
Cholinesterase Activities in Developing Amphibian Embryos Following Exposure to the Insecticides Dieldrin and Malathion,  
W85-05106 1810 5C

**PENCZAK, T.**  
Fish Production in Oued Sebaou, A Seasonal River in North Algeria,  
W85-04318 1808 2H

Phosphorus, Nitrogen, and Carbon Cycling by Fish Populations in Two Small Lowland Rivers in Poland,  
W85-04888 1809 5B

**PENDLETON, J. W.**  
Drought Response of Grain Legumes Under Irrigation Gradient: II. Plant Water Status and Canopy Temperature,  
W85-03355 1807 2I

**PENEL, J.**  
Uncertainty Analysis of a Delineated Floodplain,  
W85-04041 1808 2E

**PENG, T.-H.**  
Fayetteville Green Lake, New York, U.S.A., VIII. Mass Balance for 137-Cs in Water, Varved and Non-varved Sediments,  
W85-01102 1802 5B

**PENKA, M.**  
Amounts of Water Required by Important Ecosystems of a Rural Landscape,  
W85-00625 1802 2D

**PENMAN, A. D. M.**  
Deflection Measurements of the Upstream Asphaltic Membrane of Marchlyn Dam,  
W85-02682 1805 8D

**PENNINGTON, C. H.**  
Aquatic Biota of Bank Stabilization Structure on the Missouri River, North Dakota,  
W85-06902 1812 6G

Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 5, Fish Studies: Pilot Report,  
W85-06943 1812 8I

Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 7: Management of Ecological Data in Large River Ecosystems,  
W85-06899 1812 6G

Environmental Effects of Tennessee-Tombigbee Project Cutoff Bendways,  
W85-06965 1812 6G

Larval Fish of Selected Aquatic Habitats on the Lower Mississippi River,  
W85-06969 1812 6G

Study of Cutoff Bendways on the Tombigbee River,  
W85-06928 1812 6G

**PENNINGTON, J. C.**  
Compatibility and Infectivity of a *Cercospora Rodmani* Formulation with Enhancing Agents,  
W85-06997 1812 4A

**PENNINGTON, W.**  
Contemporary Lake Transport Processes Determined from Sedimentary Records of Copper Mining Activity,  
W85-06150 1811 2J

**PENNINO, J. D.**  
Ground Water Quality in the Aquifer of the Upper Mad River Valley 1940 to 1983,  
W85-02216 1805 5B

**PENNY, M. L.**  
Water Resources Data, Kansas Water Year 1982,  
W85-01932 1804 2E

**PENROSE, W. R.**  
Analytical Chemistry,  
W85-05593 1810 5A

Effects of Dissolved Organic Carbon on the Adsorption Properties of Plutonium in Natural Waters,  
W85-04799 1809 5B

Effects of Oil Hydrocarbons and Dispersants on Fish,  
W85-05588 1810 5C

**PENTREATH, R. J.**  
Incorporation of Plutonium, Americium and Curium into the Irish Sea Seabed by Biological Activity,  
W85-04357 1808 5B

**PENZ, E.**  
Manipulation of the Pelagic Food Web by Stocking with Predacious Fishes,  
W85-02565 1805 4A

**PEPPER, I. L.**  
Luxury Water Use by Bermudagrass Turf,  
W85-06189 1812 2D

**PERALTA, A. W.**  
Arkansas Groundwater Management Via Target Levels,  
W85-06074 1811 4B

**PERALTA, R. C.**  
Arkansas Groundwater Management Via Target Levels,  
W85-06074 1811 4B

Solar Earth-Water Distillation for Wet Sand,  
W85-06073 1811 2G

**PERAZZO, J. A.**  
Long-Term Confidence in Ground Water Monitoring Systems,  
W85-03183 1806 7B

**PERCIVAL, J. B.**

Physical and Geochemical Characteristics of Suspended Solids, Wilton Creek, Ontario,  
W85-02056 1804 2H

**PERCY, J. A.**  
Benthic and Intertidal Organisms,  
W85-05589 1810 5C

**PEREIRA, W. E.**  
Bonded-Phase Extraction Column Isolation of Organic Compounds in Groundwater at a Hazardous Waste Site,  
W85-03734 1807 5A

**PERETZ, J.**  
Leaf Water Potentials for Management of High Frequency Irrigation on Apples,  
W85-01190 1803 3F

**PEREZ, O.**  
Using Plastic Pipe Properly in Conservation Structures,  
W85-04342 1808 8G

**PERILLO, G. M. E.**  
Turbulence Measurements Over a Sand Wave in Lower Chesapeake Bay, Virginia,  
W85-03348 1807 2L

**PERKINS, H. F.**  
Movement of Water in a Plinthic Paleoduct Using a Bromide Tracer,  
W85-04957 1809 2G

**PERKINS, M. G.**  
Onondaga Lake and the Dynamics of Chloride in the Oswego River,  
W85-00549 1802 2H

**PERKINS, R. E.**  
Impact of Coal-Coking Effluent on Sediment Microbial Communities: A Multivariate Approach,  
W85-00095 1801 5C

**PERKINS, R. J.**  
Septic Tanks, Lot Size and Pollution of Water Table Aquifers,  
W85-01155 1803 5B

**PERKOWSKI, J.**  
Irradiation in Industrial Waste Treatment,  
W85-03726 1807 5D

**PERRIER, E. R.**  
Simulation for Harvesting of Aquatic Plants,  
W85-06922 1812 4A

**PERRIN, C. J.**  
Integration of Forest and Lake Fertilization: Transport and Transformations of Fertilizer Elements,  
W85-00147 1801 5G

**PERRINE, D.**  
Destruction by Ozone of Amoeba Cysts in Recycled Swimming Pool Water,  
W85-02725 1806 5D

**PERRY, C. A.**  
Flood-Frequency Estimates for Five Gaged Basins in Wichita, Kansas,  
W85-01949 1804 2A

**PERRY, E. M.**  
Regional-Scale Estimates of Surface Moisture Availability from GOES Infrared Satellite Measurements,  
W85-06188 1812 7B

**PERRY II, J. A.**  
Diel and Seasonal Carbon Budgets in Two Cold Spring Ecosystems,  
W85-03122 1806 2H

**PERRY, J. A.**  
Survey of State Water Quality Monitoring Programs,  
W85-00973 1802 7B

## AUTHOR INDEX

PETERSON, W.

<b>PERRY, J. H.</b>				
Disposal of Drainage Water from Irrigated Alluvial Plains, W85-01392	1803	5G		
<b>PERRY, L. G.</b>				
Age and Growth of Largemouth Bass in a Thermally Altered Reservoir, as Determined from Otoliths, W85-02376	1805	5C		
<b>PERRY, R.</b>				
Behaviour of Persistent Organochlorine Micropollutants During Primary Sedimentation of Waste Water, W85-03031	1806	5D		
<b>PERRY, R. L.</b>				
Frontal Zone Analysis at the Mouth of a Fjord - Jervis Inlet, British Columbia, W85-06876	1812	2L		
<b>PERSAT, H.</b>				
Transverse Distribution of Benthic Macroinvertebrates in an Arm of the Rhone (Repartition Transversale des Macroinvertebres Benthiques Dans un Bras du Rhone), W85-00986	1802	2H		
<b>PERSHANIN, E. A.</b>				
Architecture of Foreign Hydroelectric Stations, W85-00500	1801	6B		
<b>PERSOONS, E.</b>				
Hydrological Measurement Using a Public Telephone System (Télémesure Hydrologique par Réseau Téléphonique Commune), W85-00389	1801	7B		
<b>PERSSON, G.</b>				
Characterization of Particulate and Colloidal Phosphorus Forms in Water by Continuous Flow Density Gradient Centrifugation, W85-02614	1805	2H		
<b>PERSSON, P.-E.</b>				
Threshold Odour Concentrations of Odorous Algal Metabolites Occurring in Lake Water, W85-02389	1805	5F		
Uptake and Release of Environmentally Occurring Odorous Compounds by Fish, A Review, W85-03543	1807	5C		
<b>PESCATORE, C.</b>				
Effects of Water Flow Rates on Leaching, W85-06778	1812	5B		
<b>PESCHKE, H.</b>				
Rational Water Use and Performance Evaluation (Rationelle Wasserwendung und Leistungsbewertung), W85-03524	1807	3E		
<b>PESKIN, H. M.</b>				
Policies for Nonpoint-Source Water Pollution Control, W85-05943	1811	5G		
<b>PESKIN, R. L.</b>				
Numerical Estuarine Flow Model, W85-04987	1810	2L		
Numerical Model of Pollution Transport in Estuaries, W85-04988	1810	5B		
<b>PETCH, J.</b>				
Water Quality Forecasting for Real-Time Control of Irrigation Pumping Schedules, W85-01417	1803	3C		
<b>PETCH, R. A.</b>				
Note on Estimating the Unit Hydrograph (Effective Rainfall Unknown), W85-02496	1805	2A		
<b>PETER, G.</b>				
New Bottom Outlet for the Schrah Dam at the Wagital Power Station, Siebnen (Neuer Grun-				
<b>PETERSEN, R. C. JR.</b>				
Species Richness in Streams of Different Size from the Same Drainage Basin, W85-04665	1809	2H		
<b>PETERSEN, W.</b>				
Features to Protect the Outlets of the Tiefencastel Power House from Gravel Deposition (Massnahmen zur Verhinderung der Geschiebeablagernungen in den Auslaufen der Zentrale Tiefencastel), W85-01267	1803	8A		
<b>PETER, W.</b>				
Zinc and Cadmium Metabolism in Euglena gracilis: Metal Distribution in Normal and Zinc-Deficient Cells, W85-05882	1811	5C		
<b>PETERING, D. H.</b>				
Release of Sediment-Phosphorus and the Influence of Algal Growth on This Process, W85-01761	1804	2H		
<b>PETERS, J.</b>				
Flood-Runoff Forecasting with HEC1F, W85-06233	1812	2E		
Probable Maximum Flood Estimation - Eastern United States, W85-01377	1803	2E		
<b>PETERS, J. K.</b>				
Eulerian Modeling of the Transport and Chemical Processes Affecting Long-Range Transport of Sulfur Dioxide and Sulfate, W85-05315	1810	5B		
<b>PETERS, N. E.</b>				
Hydrologic Analyses of Acidic and Alkaline Lakes, W85-03993	1808	2H		
<b>PETERS, R. E.</b>				
Field Investigations of Overland Flow Treatment of Municipal Lagoon Effluent, W85-06926	1812	5D		
<b>PETERS, R. H.</b>				
Biological Availability of Soluble Reactive Phosphorus in Anoxic and Oxic Freshwaters, W85-00892	1802	2H		
Effects of Turbulence on Phosphorus Supply in a Shallow Bay of Lake Memphremagog, W85-02617	1805	2H		
Empirical Prediction of Crustacean Zooplankton Biomass and Profundal Macrobenthos Biomass in Lakes, W85-00152	1801	2H		
Importance of Internal Phosphorus Load to the Eutrophication of Lakes with Anoxic Hypolimnia, W85-02618	1805	5C		
Phosphate Exchange Between Littoral Sediments and Overlying Water in an Oligotrophic North-Temperate Lake, W85-03599	1807	2H		
<b>PETERS, T. L.</b>				
Determination of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin in Treated Wastewater, W85-01729	1804	5A		
<b>PETERSEN, J. C.</b>				
Water-Quality Assessment of the Illinois River Basin, Arkansas, W85-03925	1808	5B		
<b>PETERSEN, R. C.</b>				
Detritus Decomposition in Endogenous and Exogenous Rivers of a Tropical Wetland, W85-05673	1810	2H		
Stream Ecosystem Theory, W85-05662	1810	2E		
<b>PETERSON, R. C. JR.</b>				
Results of an Interlaboratory Test for Heavy Metals in Elbe Water (Ergebnisse einer Ringanalyse von Elbwasser auf Schwermetalle), W85-01607	1803	5A		
<b>PETERSON, W.</b>				
Effect of Sludge Application of Physical Properties of a Silty Clay Loam Soil, W85-06715	1812	5E		
<b>PETERSON, A. W.</b>				
LDA Measurements in Open Channel, W85-04399	1808	8B		
<b>PETERSON, D.</b>				
Isolation of Aeromonas hydrophila from a Metropolitan Water Supply: Seasonal Correlation with Clinical Isolates, W85-02596	1805	5F		
Isolation of Aeromonas spp. from an Unchlorinated Domestic Water Supply, W85-02597	1805	5F		
<b>PETERSON, D. H.</b>				
Numerical Simulation of Phytoplankton Productivity in Partially Mixed Estuaries, W85-03636	1807	2L		
<b>PETERSON, H. G.</b>				
Metal Toxicity to Algae: A Highly pH Dependent Phenomenon, W85-01494	1803	5C		
<b>PETERSON, K. M.</b>				
Growth of Alpine Plants Under Controlled Drought, W85-00235	1801	2I		
Influence of Water Table and Atmospheric CO <sub>2</sub> Concentration on the Carbon Balance of Arctic Tundra, W85-02857	1806	2G		
<b>PETERSON, M. E.</b>				
Effects of Urbanization on Physical Habitat for Trout in Streams, W85-00070	1801	6G		
Recovery of Selected Pathogens from Naples Bay, Florida, and Associated Waterways, W85-02397	1805	5B		
<b>PETERSON, M. L.</b>				
210Pb-Derived Sediment Accumulation and Mixing Rates for the Greater Puget Sound Region, W85-06701	1812	2J		
Mixing and Cycling of Uranium, Thorium and 210-Pb in Puget Sound Sediments, W85-03209	1806	2L		
<b>PETERSON, P. J.</b>				
Silver and Other Metals in Some Aquatic Bryophytes from Streams in the Lead Mining District of Mid-Wales, Great Britain, W85-05702	1810	5B		
<b>PETERSON, R. H.</b>				
Uptake of Cadmium by Eggs and Alevins of Atlantic Salmon ( <i>Salmo salar</i> ) as Influenced by Acidic Conditions, W85-05012	1810	5C		
<b>PETERSON, T. R.</b>				
Tillage, Residue and Erosion on Moderately Sloping Soils, W85-03402	1807	2J		
<b>PETERSON, W.</b>				
Contract Operations - One Alternative for Water Treatment Facilities, W85-07061	1812	5F		

## AUTHOR INDEX

**PETIT, CH.**

**PETIT, CH.**  
Micro Hydroelectric Stations with Powers Under 100 kW (Microcentrales Hydroélectriques d'une Puissance Inferieure a 100 kW),  
W85-00382 1801 8C

**PETIT, D.**  
Pond Sediments as Historical Record of Heavy Metals Fallout,  
W85-00548 1802 5B

Stable Lead Isotopes in Pond Sediments as Tracer of Past and Present Atmospheric Lead Pollution in Belgium,  
W85-03596 1807 5B

**PETTIEJEAN, M. A.**  
Hydraulic Circuit Design and its Effects on the Civil Engineering Features of Locks (La conception des circuits hydrauliques et ses repercussions sur le genie civil des ecluses),  
W85-00371 1801 4A

Technological Development of Gated Weirs on Navigable Waterways (Evolution technologique des barrages mobiles sur les voies navigables),  
W85-00375 1801 8C

**PETKOVIC, S.**  
Vertical Dispersion of Spherical, Heavy Particles in Turbulent Open Channel Flow,  
W85-07031 1812 2J

**PETRAITIS, M. J.**  
Origin and Distribution of Carbon Dioxide in the Unsaturated Zone of the Southern High Plains of Texas,  
W85-02661 1805 2K

**PETRASCHECK, A. W.**  
Routing of Dam Break Floods,  
W85-01550 1803 2E

**PETRASEK, A. C. JR.**  
Reduction in Toxicity of Organic Priority Pollutants by Pilot-Scale Conventional Wastewater Treatment Process,  
W85-02201 1805 5D

**PETRE, P.**  
Methods for Evaluation Maximum Acceptable Toxicant Concentration of Some Pesticides Upon the Freshwater Fish. I. Evaluation MATC Values of Fungicide Thiram (Metode de Determinare a Valorilor Maxime Admisibile (MATC) in Apa a Unor Pesticide Asupra Unor Specii de Pesti Dulcicoli. I. Determinarea Valorii MATC a Fungicidului Tiuram),  
W85-03531 1807 5C

**PETROV, V. B.**  
Changes in Southern Chernozems after Drip Irrigation,  
W85-06750 1812 3F

**PETROVA, A. A.**  
Biological State of Underground Waters in the Industrial Zone of the Eastern Part of the Sofia Plain (Biologichio S'toyanie na Podzemnite vodi v Industrialnata Zona na Uztochmoto Zofizko Pole),  
W85-03103 1806 5B

**PETROVSKI, D.**  
Effects of Aqueous Chemical Environments on Crack Propagation in Quartz,  
W85-00723 1802 8E

**PETRUSKA, J. A.**  
Livestock Lagoon Systems for Disposal of Pesticide Wastes,  
W85-03381 1807 5D

**PETRY, J.**  
Comparison of Water Mains Cleaning Techniques - The Experiment of Begles (Comparaison des Techniques de Curage des Conduites d'Eau Potable - L'Experience de Begles),  
W85-01999 1804 8A

**PETTERSSON, K.**  
Influence of Nitrate on the Phosphorus Flux to and from Oxygen Depleted Lake Sediments,  
W85-05716 1810 2K

Transfer between Forms of Sedimentary Phosphorus Induced by Nitrate Treatment,  
W85-02621 1805 2H

**PETTIJOHN, R. A.**  
Hydraulic Conductivity, Specific Yield, and Pumpage - High Plains Aquifer System, Nebraska,  
W85-00032 1801 7C

Hydrologic Analysis of the High Plains Aquifer System in Box Butte County, Nebraska,  
W85-03915 1808 2F

**PETTIGEAE, G. E.**  
Channel Changes and Invertebrate Faunas under Nant-Y-Moch Dam, River Rheidal, Wales, UK,  
W85-06007 1811 6G

Water Quality Implications of Artificial Flow Fluctuations in Regulated Rivers,  
W85-02413 1805 2K

**PETTY, J. D.**  
Fate of Kepone and Mirex in the Aquatic Environment,  
W85-00160 1801 5B

**PETTYJOHN, W. A.**  
Analytical Methods for the Prediction of Leachate Plume Migration,  
W85-06831 1812 5B

**PETUKHOV, S. A.**  
Toxic Effect of Mercury on Salmon Larval, *Oncorhynchus keta* and *O. kisutch*,  
W85-02848 1806 5C

**PEUKERT, V.**  
Biological-Chemical Method for Examination of the Inhibition of Decomposition and Elimination of Wastewater Organic Matter (Biologisch-chemisches Verfahren zur Prufung des Abbau- und Einlagerungsverhaltens organischer Abwasser-inhaltsstoffe),  
W85-06262 1812 5D

**PEVERLY, J. H.**  
Element Accumulation and Release by Macrophytes in a Wetland Stream,  
W85-06625 1812 2H

**PEYTON, G. R.**  
Investigation of Photocatalytic Oxidation for Wastewater Cleanup and Reuse,  
W85-01813 1804 5D

**PFÄENDER, F. K.**  
Influence of Easily Degradable Naturally Occurring Carbon Substrates on Biodegradation of Monosubstituted Phenols by Aquatic Bacteria,  
W85-05050 1810 5B

Influence of Naturally Occurring Humic Acids on Biodegradation of Monosubstituted Phenols by Aquatic Bacteria,  
W85-05051 1810 5B

Influence of Spatial and Temporal Variations on Organic Pollutant Biodegradation Rates in an Estuarine Environment,  
W85-00097 1801 5B

**PFANNKUCH, H. O.**  
Effect of Anisotropy and Groundwater System Geometry on Seepage Through Lakebeds; 1. Analog and Dimensional Analysis,  
W85-04275 1808 2F

Effect of Anisotropy and Groundwater System Geometry on Seepage Through Lakebeds; 2. Numerical Simulation Analysis,  
W85-04276 1808 2F

Silicate Dissolution Influence on Filson Creek Chemistry, Northeastern Minnesota,  
W85-04310 1808 2K

**PFEIFFER, J. T.**  
Anaerobic Activated Carbon Filter for the Degradation of Polycyclic N-Aromatic Compounds,  
W85-04288 1808 5D

**PFEIFFER, E. H.**  
Isolation of Organic Material from Water,  
W85-07150 1812 5A

**PFEIFFER, W. C.**  
Mineral Distribution and Ecological Role of a Recently Formed Halophyte Community in the Guanabara Bay Rio De Janeiro,  
W85-04851 1809 5C

Size and Metal Concentration in the Mangrove Mussel *Mytilus guyanensis* (Mollusca: Bivalva) from Baia de Sepetiba, Brazil,  
W85-02718 1806 5A

Uptake and Release of 51Cr(VI) and 51Cr(III) by Barnacles (*Balanus sp.*),  
W85-01353 1803 5B

**PFISTER, R. M.**  
Bacteria and Cadmium Interactions in Natural and Laboratory Model Aquatic Systems,  
W85-02206 1805 5C

**PFUND, R.**  
Planning, Implementation of Directives and Pipelaying Standards,  
W85-01998 1804 6B

**PFUNDT, H.**  
Various Coating Materials for Potable Water Concrete Storage Reservoirs - Experiences in Germany, Switzerland and Austria,  
W85-02000 1804 8G

**PHAM THI, A. T.**  
Action of Drought on Polar Lipids in the Leaves of Cotton (*Gossypium hirsutum* L.) (Action de la Secheresse sur les lipides polaires des Feuilles de Cotonnier (*Gossypium hirsutum* L.)),  
W85-02337 1805 2I

**PHAN, T.**  
Approximating Pollutant Transport to Ground Water,  
W85-00349 1801 5B

**PHELPS, G. G.**  
Recharge and Discharge Areas of the Floridan Aquifer in the St. Johns River Water Management District and Vicinity, Florida,  
W85-02049 1804 7C

**PHELPS, H. L.**  
Factors Affecting Trace Metal Accumulation by Estuarine Oyster *Crassostrea virginica*,  
W85-06878 1812 5A

**PHELPS, L. B.**  
Modeling Fluid Flow in Selective Placement of Toxic Mine Spoil,  
W85-06839 1812 5B

**PHELPS, T. J.**  
Influence of pH on Terminal Carbon Metabolism in Anoxic Sediments from a Mildly Acidic Lake,  
W85-03735 1807 2H

**PHENE, C. J.**  
Automated Weather Data Collection for Research on Irrigation Scheduling,  
W85-01181 1803 7B

Soil Sensor Control of High-Frequency Irrigation Systems,  
W85-01182 1803 3F

**PHETTEPLACE, G.**  
Heating Enclosed Wastewater Treatment Facilities with Heat Pumps,  
W85-04924 1809 6A

## AUTHOR INDEX

PINION, S.

<b>PHIEN, H. N.</b>	Influence of Surfactants on the Determination of Cu, Pb, and Cd by ASV, W85-02429	1805 5A	<b>PIK, A. J.</b>	Speciation of Iron, Copper and Zinc in the Hawkesbury River, W85-00786	1802 5A
<b>PHILIP, J. R.</b>	Applications of the Log Pearson Type-3 Distribution in Hydrology, W85-02494	1805 2A	<b>PILATI, S.</b>	Probability Distributions of Annual Maxima of Seasonal Hydrological Variables, W85-05906	1811 2E
Nonuniform Leaching from Nonuniform Steady Infiltration, W85-02321	1805 2G		<b>PILGRIM, D. H.</b>	Time Patterns of Rainfall For Estimating Design Floods on a Frequency Basis, W85-01687	1804 2B
Steady Infiltration from Spherical Cavities, W85-02318	1805 2G		<b>PILLANS, B.</b>	Drainage Initiation by Subsurface Flow in South Taranaki, New Zealand, W85-06520	1812 2E
Travel Times from Buried and Surface Infiltration Point Sources, W85-02167	1804 2G		<b>PILON, J. C.</b>	Incidence and Levels of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Lake Ontario Commercial Fish, W85-02349	1805 5B
<b>PHILIPP, K. R.</b>	Fluxes of Heavy Metals in Delaware River Freshwater Tidal Wetlands, W85-01805	1804 5B	<b>PILSON, M.</b>	Accumulation of Sediments, Trace Metals (Pb, Cu) and Total Hydrocarbons in Narragansett Bay, Rhode Island, W85-03500	1807 5B
Evaluation of Fisherman Benefits Stemming from Special Use Fishery Management Programs, W85-01831	1804 6B		<b>PILSON, M. E. Q.</b>	Recovery of a Polluted Estuarine System: A Mesocosm Experiment, W85-01046	1802 5B
<b>PHILLIPS, G. L.</b>	Large-Scale Field Experiment in the Control of Eutrophication in the Norfolk Broads, W85-04465	1809 5G		Residence Time of Water in Narragansett Bay, W85-06411	1812 2L
<b>PHILLIPS, J. D.</b>	Estimation of Drainage Areas in A Homogeneous Landscape, W85-04990	1810 2E	<b>PINATEL, R.</b>	Locks on the Wide-Gauge Rhone Waterway (Les écluses d'une voie à grand gabarit: le Rhône), W85-00372	1801 4A
<b>PHILLIPS, J. H.</b>	Experiences in the Use of East Anglian Sands and Gravels ('Crags') as a Source of Water Supply, W85-05517	1810 5F	<b>PINDER, G. F.</b>	Calculation of Velocity in Three Space Dimensions from Hydraulic Head Measurements, W85-00306	1801 2F
<b>PHILLIPS, R. E.</b>	Effect of Moisture Stress on Seed Growth in Soybeans, W85-03356	1807 2I		Finite Element-Finite Difference Alternating Direction Algorithm for Three-Dimensional Groundwater Transport, W85-04170	1808 2F
<b>PHINNEY, S. L.</b>	Tightening Regulations for Hazardous Waste Management: Mandates and Compliance Strategies, W85-05768	1810 6E		Multiphase Approach to the Modeling of Porous Media Contamination by Organic Compounds; I. Equation Development, W85-04787	1809 5B
<b>PHIPPS, G. L.</b>	Acute Toxicity of Selected Substituted Phenols, Benzenes and Benzoic Acid Esters to Fathead Minnows <i>Pimephales promelas</i> , W85-02751	1806 5C		Multiphase Approach to the Modeling of Porous Media Contamination by Organic Compounds; 2. Numerical Simulation, W85-04788	1809 5B
<b>PHIRKE, P. M.</b>	Use of Bituminous Coal as an Alternative Technique for Field Concentration of Waterborne Viruses, W85-07129	1812 5A	<b>PINEL, R.</b>	Trace Determination of Inorganic and Organic Tin in Water by Hydride Atomic Absorption Spectrometry (Dosage de l'Etain Mineral et Organique en Traces dans les eaux par Spectrophotométrie d'absorption Atomique avec Génération-Décomposition d'hydrides), W85-04000	1808 5A
<b>PHULARI, D. G.</b>	Extreme Probability Analysis of Drought Periods in Monsoon in Relation to Water Need of Crop Stages, W85-05090	1810 2B	<b>PINGOUD, K.</b>	State Model for Infiltration, W85-06644	1812 2G
<b>PICCARDI, G.</b>	Electroanalytical Methods for Monitoring Potabilization Processes, W85-02313	1805 5F	<b>PINION, E.</b>	Precipitation Gage Network Operations for Wintertime Research in the Central Sierra Nevada, W85-06925	1812 2B
<b>PICKERING, G. A.</b>	Big Creek Flood-Control Project Cleveland, Ohio: Hydraulic Model Investigation, W85-06994	1812 8B	<b>PIISPANEN, R.</b>	Precipitation Gage Network Operations for Wintertime Research in the Central Sierra Nevada, W85-06925	1812 2B
South Fork Tillatoba Creek Drop Structure, Mississippi: Hydraulic Model Investigation, W85-06923	1812 8B				
<b>PICKERING, W. F.</b>	Effect of Organic Colloids on ASV Signals of Cd, Pb and Cu, W85-06572	1812 5A			

## AUTHOR INDEX

**PINKNEY, A. E.**

**PINKNEY, A. E.**  
Comparison of Avoidance Responses of an Estuarine Fish, *Fundulus heteroclitus*, and Crustacean, *Palaeomonetes pugio*, to Bis(Tri-N-Butyltin)Oxide,  
W85-06887 1812 5C

**PINKOWSKI, R. H.**  
Effect of Feedlot Runoff on a Southern Illinois Forested Watershed,  
W85-06617 1812 5D

**PINTENICH, J. L.**  
Fate of Nitrate in a Single Stage Nitrification Activated Sludge System,  
W85-05557 1810 5D

**PINTER, P. J. JR.**  
Stomatal Conductance and Photosynthesis in Water Hyacinth: Effects of Removing Water from Roots as Quantified by a Foliage-Temperature-Based Plant Water Stress Index,  
W85-06200 1812 2I

**PINTO, A. C.**  
Treatment of Cork-Stopper Manufacturing Wastes,  
W85-05295 1810 5D

**PINZARIU, S.**  
Seepage Through Till Foundations of Dams of the Eastmain - Opinaca - La Grande Diversion,  
W85-03418 1807 2F

**PIONKE, H. B.**  
Effect of Agricultural Land Use on Ground-Water Quality in a Small Pennsylvania Watershed,  
W85-04642 1809 5B

**PIP, E.**  
Ecogeographical Tolerance Range Variation in Aquatic Macrophytes,  
W85-01006 1802 2H

**Ecology of Freshwater Gastropods on the Southwestern Edge of the Precambrian Shield,**  
W85-06846 1812 2H

**PIPE, R. K.**  
Responses of the Mussel *Mytilus edulis* to Copper and Phenanthrene: Interactive Effects,  
W85-05886 1811 5C

**PIPES, W. O.**  
Estimating Mean Coliform Densities of Water Distribution Systems,  
W85-03628 1807 5A

**Frequency Distribution of Coliforms in Water Distribution Systems,**  
W85-00106 1801 5F

**PIPSEN, R. W.**  
Movement of Water from Peatland into Surrounding Groundwater,  
W85-00953 1802 2L

**PIRBAZARI, M.**  
Removal of Dieldrin from Water by Activated Carbon,  
W85-00720 1802 5F

**PIRCHER, W.**  
Influence of Geology and Geotechnology on Dam Design (Der Einfluss von Geologie und Geotechnik auf den Entwurf von Talsperren),  
W85-03269 1807 8E

**PIRIE, B. J.**  
Interspecies Differences in Heavy Metal Detoxication in Oysters,  
W85-05896 1811 5C

**PIRIE, B. J. S.**  
Cellular Metal Distribution in the Pacific Oyster, *Crassostrea gigas* (Thun.) Determined by Quantitative X-Ray Microprobe Analysis,  
W85-05995 1811 5C

**PIRON, D. L.**

Utilization of a Microcomputer in the Calculation of Calcocarbonic Equilibrium Curves,  
W85-04051 1808 5F

**PIRUMOV, S. S.**

Determination of Velocities of Mass Movement of Sediments on the Foreshore,  
W85-05147 1810 2J

**PITBLADO, J. R.**

Crustacean Plankton in Northeastern Ontario Lakes Subjected to Acidic Deposition,  
W85-02954 1806 2H

**PITEAU, D. R.**

Remedial Measures for Debris Flows at the Agassiz Mountain Institution, British Columbia,  
W85-03426 1807 2J

**PITTER, P.**

Forms of Occurrence of Fluorine in Drinking Water,  
W85-06218 1812 5F

**PIVER, W. T.**

Waste Disposal Technologies for Polychlorinated Biphenyls,  
W85-07074 1812 5E

**PIZZARRO, D. R.**

Alternative Sludge Handling and Disposal at Kent County, Delaware,  
W85-07049 1812 5E

**PIZZA, J. C.**

Measurement of the Effect of Aroclor 1254 on the Respiration of Gammarus using Potentiometric Respirometry,  
W85-07122 1812 5C

**PIZZI, G.**

Interconnected Groundwater Systems Simulation (IGROSS) - Description of the System and a Case History Application,  
W85-04277 1808 2F

**PIZZIE, R. A.**

Studies of the Halogenation of Dissolved Organic Material During the Chlorination of Saline Cooling Waters, the Model Compounds Resorcinol Diacetate and Resorcinol Dimethyl Ether,  
W85-04979 1810 5F

**PIZZUTTO, J. E.**

Bank Sediment Type and Suspended-Sediment Transport in Sand-Bed Streams,  
W85-06421 1812 2J

**Evaluation of Methods for Calculating the Concentration of Suspended Bed Material in Rivers,**

W85-03162 1806 2J

**PLAA, G. L.**

Subchronic Effects of a Mixture of 'Persistent' Chemicals Found in the Great Lakes,  
W85-04479 1809 5C

**PLAHL-WABNEGG, F.**

Anaerobic Treatment of Viscose Wastewater,  
W85-07016 1812 5D

**PLAMINEK, J.**

Relation Between the Composition of Gravel Fragments of the Jizera River and the Geology of its Basin (Vztah Mezi Slozenim Ulomku Fluviyalnich Sedimentu Jizery a Geologickou Stavbou Jejihho Povodni),  
W85-05859 1811 2J

**PLAMINKOVA, J.**

Relation Between the Composition of Gravel Fragments of the Jizera River and the Geology of its Basin (Vztah Mezi Slozenim Ulomku Fluviyalnich Sedimentu Jizery a Geologickou Stavbou Jejihho Povodni),  
W85-05859 1811 2J

**PLANAS, D.**

Comparison of Phosphorus Turnover Times in Northern Manitoba Reservoirs with Lakes of the Experimental Lakes Area,  
W85-00636 1802 2H

Lack of Effect of Arsenic on Phytoplankton Communities in Different Nutrient Conditions,  
W85-00888 1802 5C

Short Term Response of a Northern Lotic Ecosystem to a Great Reduction in Flow (Reponse, a Court Terme, d'un Ecosystème Lotique Nordique a une Forte Reduction de Debit),  
W85-05658 1810 6G

**PLANTER, M.**

Biotic Structure and Processes in the Lake System of R. Jorka Watershed (Masurian Lakeland, Poland), II. Physical and Chemical Properties of Water and Sediments,  
W85-00903 1802 2H

**PLASTERER, G.**

Heavy Snow Loads Plague Reservoir Roof,  
W85-05482 1810 8A

**PLASTOURGOU, M.**

Transformation and Fate of Organic Esters in Layered-Flow Systems: The Role of Trace Metal Catalysis,  
W85-02805 1806 5B

**PLATANOVÁ, T. K.**

Salt Removal from Soils of the Low Syrt Plain,  
W85-06749 1812 2G

**PLATE, E. J.**

Experimental Investigation of Intrusive Gravity Currents Entering Stably Stratified Fluids,  
W85-07028 1812 2H

**PLATELL, N.**

Iron Removal From TiO2-Plant Acidic Wastewater,  
W85-02278 1805 5D

**PLATOU, S. W.**

Land Use Planning in Denmark: The Use of Soil Physical Data in Irrigation Planning,  
W85-01234 1803 3F

**PLEBAN, S.**

Minimizing Capital Costs of Multi-Outlet Pipelines,  
W85-01509 1803 8A

Real Time Irrigation Scheduling via 'Reaching' Dynamic Programming,  
W85-02155 1804 3F

**PLESE, T.**

Electrochemical Determination and Characterization of Surface Active Substances in Freshwaters,  
W85-04972 1810 2H

**PLEWA, M. J.**

Comparison of the Mutagenicity of Sewage Sludges,  
W85-03662 1807 5E

**PLOTKIN, S.**

Multiple Bioassays to Assess the Toxicity of a Sanitary Landfill Leachate,  
W85-02202 1805 5A

**PLOTNIKOV, A. A.**

Prospects of Improving Methods of Constructing Frozen-Type Earth Dams,  
W85-00457 1801 8D

**PLUGER, W. L.**

Reconnaissance Survey of the Mineralogy and Geochemistry of some New Zealand Lake and Nearshore Sediments,  
W85-00809 1802 2H

**PLUMB, J. A.**

Effect of Treatment with a Commercial Bacterial Suspension on Water Quality in Channel Catfish Ponds,  
W85-01922 1804 5F

## AUTHOR INDEX

PORAK, W. F.

<b>PLUYM, D. V.</b>			
Ecotoxicological Model for Energy Development and the Salton Sea, California, W85-03823	1808	4C	
<b>POCHOP, L. O.</b>			
Elevation - A Bias Error in SCS Blaney Criddle ET Estimates, W85-03373	1807	2D	
<b>PODMORE, T. H.</b>			
Fist and Second Order Analyses of Parameter Uncertainty in Drainage Design, W85-03400	1807	2E	
Optimal Drain Design for Arid, Irrigated Areas, W85-03403	1807	3F	
<b>PODOWSKI, A. A.</b>			
Fate of Hexachlorocyclopentadiene in Water and Goldfish, W85-02214	1805	5B	
<b>POGGE, E. C.</b>			
Monthly Evaporation for Milford Lake in Kansas, W85-01507	1803	2D	
<b>POHLAND, F. G.</b>			
Nitrification of Anaerobically Treated Coal Gasifier Effluent, W85-02587	1805	5D	
<b>POIRIER, S. H.</b>			
Toxicity, Uptake, and Elimination of the Herbicides Alachlor and Dineoseb in Freshwater Fish, W85-01296	1803	5C	
<b>POIRSON, M.</b>			
Numerical Modelling of a Steady State Flow in a Free Surface Looped Hydraulic Network under Fluvial Conditions (Modélisation numérique d'un écoulement permanent dans un réseau hydraulique mû par la surface libre, en régime fluvial), W85-02353	1805	2E	
<b>POITEVIN, J.</b>			
Radiation and Energetic Exchanges and Thermal Balance of the Soil in the James Bay Area (Les échanges radiatifs et énergétiques et le bilan thermique du sol en Jamesie), W85-00142	1801	2G	
<b>POLDER, A.</b>			
Time Trends of Organochlorine Chemical Residues in Seven Sedentary Marine Fish Species from a Norwegian Fjord during the Period 1972-1982, W85-04365	1808	5B	
<b>POLISHCHUK, V. S.</b>			
Phytoplankton of the Lower Dnieper (Fitoplankton Nizhnego Dnepra), W85-06375	1812	5C	
<b>POLISHCHUK, V. V.</b>			
Comparison of Biological Indication Methods Exemplified by North Ukrainian Water Bodies, W85-04100	1808	2H	
<b>POLISSAR, L.</b>			
Cancer Risk from Asbestos in Drinking Water: Summary of a Case-Control Study in Western Washington, W85-02705	1806	5C	
Use of Quantitative Analysis of Urine to Assess Exposure to Asbestos Fibers in Drinking Water in the Puget Sound Region, W85-02712	1806	5A	
<b>POLITZKI, G.</b>			
Prediction of Ecotoxicological Behaviour of Chemicals: Relationship between n-Octanol/Water Partition Coefficient and Bioaccumulation of Organic Chemicals by Alga Chlorella, W85-01959	1804	5B	
<b>POLLARD, D.</b>			
Embryo Abnormalities in the Periwinkle, Littorina 'satulina', as Indicators of Stress in Polluted Marine Environments, W85-04893	1809	5A	
<b>POLLARD, W. H.</b>			
Groundwater Hydraulics of Seasonal Frost Mounds, North Fork Pass, Yukon Territory, W85-03198	1806	2C	
<b>POLLARD, W. S.</b>			
Ground-Water/Subsidence Model: A Management Tool, W85-01568	1803	2F	
<b>POLLEN, M. R.</b>			
Water Conservation in Barrow, Alaska, W85-04918	1809	6B	
<b>POLLINGHER, U.</b>			
Relative Contributions of Net and Nanno Phytoplankton to Primary Production in Lake Kinneret (Israel), W85-00868	1802	2H	
<b>POLLOCK, T.</b>			
Problems Associated with Sulphate Determination in Colored, Humic Waters in Kejimkujik National Park, Nova Scotia (Canada), W85-05661	1810	5A	
<b>POLONSKII, G. A.</b>			
Assembly of the Penstocks of the Shamba Hydroelectric Station, W85-00439	1801	8C	
<b>POLPRASET, C.</b>			
Dispersion Model for Waste Stabilization Ponds, W85-04966	1809	5D	
Wastewater Treatment in a Deep Aeration Tank, W85-04981	1810	5D	
<b>POLUNIN, N. V. C.</b>			
Decomposition of Emergent Macrophytes in Fresh Water, W85-04320	1808	2H	
<b>POLYAKOV, V. A.</b>			
Electrolytic Enrichment of Water Samples with Low Tritium Concentrations, W85-04138	1808	2F	
Identification of Hydrogeological Systems from Data of Isotope Tracer Investigations, W85-04122	1808	2F	
Isotope Investigations of the Conditions of Formation of Mineral and Thermal Waters in Some Caucasian Regions, W85-05152	1810	2F	
<b>POLYAKOV, Y. A. R.</b>			
Use of the Channels of Flatland Rivers for Inter-basin Water Transfer, W85-00452	1801	8B	
<b>POMAZUEVA, I. P.</b>			
Selection of Economic Thicknesses of Reinforced-Concrete Elements of Hydraulic Structures, W85-00465	1801	8F	
<b>POMMERY, J.</b>			
Relation between Toxicity and Free Forms of Some Trace Metals (Relation entre Toxicité et Formes Libres de Quelques Métaux Traces), W85-05976	1811	5C	
<b>POMMIER,</b>			
Water Supply Methods for Navigable Waterways; Optimization of a Project with Locks; Pump Stations (Les méthodes d'alimentation en eau des voies navigables; Optimisation d'un projet avec écluses; Les stations de pompage), W85-00369	1801	4A	
<b>PONCE, V. M.</b>			
Kinematic Shock: Sensitivity Analysis, W85-06037	1811	2E	
<b>PONCZYNSKI, J. J.</b>			
Drainage Density in Relation to Precipitation Intensity in the U.S.A., W85-04285	1808	2A	
<b>PONNAMPERUMA, C.</b>			
Investigation of Mercury-Amino Acid Complexes in the Aqueous Environment, W85-00077	1801	5A	
<b>PONOMARENKO, YU. V.</b>			
Experience in Constructing Radial Wells in Fine Sands, W85-00447	1801	8D	
<b>PONSOLD, U.</b>			
Comparative Studies for Indication of Chlorine in Drinking and Bathing Water on the Basis of o-Tolidine and Diethyl-p-phenylenediamine (DPD) (Vergleichende Untersuchungen Zum Nachweis von Chlor im Trink- und Badewasser auf der Basis von o-Tolidin und Diethyl-p-Phenyldiamin (DPD)), W85-06276	1812	5F	
<b>PONTAILLER, J. Y.</b>			
Evapotranspiration of a Deciduous Forest: Simulation Using Routine Meteorological Data, W85-04281	1808	2D	
<b>PONTE, M.</b>			
Evaluating Dewatering Alternatives, W85-02992	1806	5E	
Evaluating Enclosed Composting Systems, W85-02299	1805	5E	
<b>PONTIUS, F. W.</b>			
Overview of Water Treatment Practices in the United States, W85-03621	1807	5F	
<b>POORE, A. B.</b>			
Water Quality Optimization through Selective Withdrawal, W85-06974	1812	5G	
<b>POORE, G. C. B.</b>			
Benthic Communities of the Gippsland Lakes, Victoria, W85-00785	1802	2L	
<b>POPESCU, M.</b>			
Resonance Sensitivity of Hydro-power and Pumping Stations, W85-02681	1805	8C	
<b>POPESCU-MARINESCU, V.</b>			
Influence of the Geothermal Waters on Fishes and Aquatic Invertebrates, in the Plain of Banat (Influenta Apelor Geotermale, din Cimpia Banatului, Asupra Pestilor si Nevertebratorilor Acvatice), W85-03532	1807	5C	
<b>POPOV, E. G.</b>			
Modern Methods of Hydrologic Forecasts, W85-04143	1808	2A	
<b>POPOV, YU. M.</b>			
Changes in the Reclamation Conditions of the Ili Delta Head Following Streamflow Regulation, W85-04131	1808	6G	
<b>POPOVA, K. S.</b>			
Hydraulics of the Lower Pool of the Dubossary Hydroelectric Scheme, W85-05987	1811	8B	
<b>PORAK, W. F.</b>			
Controlling Acidic-Toxic Metal Leachates from Southern Appalachian Construction Slopes: Mitigating Stream Damage, W85-06064	1811	5G	

## AUTHOR INDEX

**PORCELLA, D. B.**

**PORCELLA, D. B.**  
Impact of Detergent Phosphorus Bans on Receiving Water Quality,  
W85-00558 1802 5C

Screening Methods for Synfuel Chemicals in Aquatic Environments,  
W85-02812 1806 5A

**POREH, M.**  
Combined Effect of Wind and Topography on Rainfall Distribution,  
W85-01166 1803 2B

**POREY, P. D.**  
Trajectory of a Turbulent Cross Jet,  
W85-07030 1812 8B

**PORTER, J. E.**  
Water Resources Data, Arkansas, Water Year 1982,  
W85-01934 1804 2E

**PORTER, J. J.**  
Recovery of Hot Water, Dyes and Auxiliary Chemicals from Textile Wastestreams,  
W85-00252 1801 5D

**PORTTIKIVI, R.**  
Experiences Gained in Restoring a Wilderness River,  
W85-02386 1805 5G

**POSEY, I. J.**  
Speciation of Antifoulant Organotin Compounds in Water,  
W85-04013 1808 5B

**POST, H. E.**  
Effect of Clear-Cut Silviculture on Dissolved Ion Export and Water Yield in the Piedmont,  
W85-02171 1804 5B

**POST, L. E.**  
Mixing Zone Studies in the Grand River Basin,  
W85-01710 1804 5B

**POSTMA, D.**  
Pyrite and Siderite Formation in Brackish and Freshwater Swamp Sediments,  
W85-01300 1803 2K

**POSTMA, L.**  
Two Dimensional Water Quality Model Application for Hong Kong Coastal Waters,  
W85-00574 1802 6G

**POTRATZ, C. J.**  
Estimating the Parameters of a Cube Root Normal Distribution from Reduced Sample Data,  
W85-04796 1809 2B

**POTTINGER, L. H.**  
Study of Mutagenic Activity in Water in a Progressive Ozonation Unit (Etude du Caractere Mutagene de l'Eau dans une Filiere de Production a Ozonation Estagee),  
W85-01987 1804 5F

**POTTER, H. R.**  
Interorganizational Relations and Decision Making Among Section 208 Water Quality Management Planning Agencies,  
W85-06305 1812 6E

**POTTER, K. W.**  
Empirical Study of Flood Measurement Error,  
W85-05805 1810 2E

**POTTER, M. E.**  
Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 5, Fish Studies: Pilot Report,  
W85-06943 1812 8I

**POTTS, D. F.**  
Hydrologic Impacts of a Large-Scale Mountain Pine Beetle (Dendroctonus ponderosae Hopkins) Epidemic,  
W85-01375 1803 4C

**POUGATSCH, H.**  
Regular Examination of Dams; Handling and Operation Control of Gates (Controles periodiques de l'etat des Barrages; Manoeuvre et Essai de Fonctionnement des Organes Mobiles),  
W85-01272 1803 8C

**POULET, S. A.**  
Short-Term Variability of the Size Spectra of Suspended Particles in a Rapidly Changing Environment,  
W85-00658 1802 2L

**POUND, C. E.**  
Wastewater Recycling in Muskegon County,  
W85-03796 1808 5D

**POWELL, J. D.**  
Quality of Ground Water in Southern Buchanan County, Virginia,  
W85-00025 1801 2K

**POWELL, J. R.**  
Uncertainty in Water Resource Planning: An Economic Evaluation of a Water Use Reduction Alternative,  
W85-00862 1802 6C

**POWELL, N. L.**  
Comparison of Field- and Laboratory-Measured and Predicted Hydraulic Properties of a Soil with Macropores,  
W85-04617 1809 2G

**POWELL, T.**  
Climatic Forcing: Effects of El Nino on a Small, Temperate Lake,  
W85-03972 1808 2H

Diurnal Cycle of Stratification in Lake Titicaca: Eddy Diffusion,  
W85-04567 1809 2H

**POWELL, T. M.**  
Mixing and the Dynamics of the Deep Chlorophyll Maximum in Lake Tahoe,  
W85-02223 1805 2H

Temperature and Transport Patterns in Lake Tahoe: Satellite Imagery, Field Data and a Dynamic Model,  
W85-02609 1805 2H

**POWER, G.**  
Stress-Related Changes in Lake Whitefish (Corynus clupeaformis) Associated with a Hydroelectric Control Structure,  
W85-03312 1807 6G

**POWER, J.**  
Avoidance of Suspended Sediments by Smelt as Determined by a New 'Single Fish' Behavioral Bioassay,  
W85-07155 1812 5C

**POWER, J. F.**  
Effect of Disturbed Soil Thickness on Soil Water Use and Movement under Perennial Grass,  
W85-05190 1810 2I

**POWER, M. E.**  
Importance of Sediment in the Grazing Ecology and Size Class Interactions of an Armored Catfish, *Ancistrus spinosus*,  
W85-00279 1801 2H

**PRAH, D. H.**  
Total Systems Approach Reduces Mill Wastewater Treatment Costs,  
W85-05405 1810 5D

**PRAHL, F. G.**  
Hydrocarbons in Washington Coastal Sediments,  
W85-01915 1804 5B

Polyyclic Aromatic Hydrocarbons in Washington Coastal Sediments: An Evaluation of Atmospheric and Riverine Routes of Introduction,  
W85-02346 1805 5B

**PRAKASH, A.**  
Ground-Water Contamination Due to Transient Sources of Pollution,  
W85-03781 1808 5B

**PRAKASH, T. M.**  
Polyelectrolyte Selection for Water Treatment,  
W85-06587 1812 5F

**PRANDLE, D.**  
Simple Theory for Designing Tidal Power Schemes,  
W85-03476 1807 8A

**PRASAD, G.**  
Removal of Cr(VI) from Aqueous Solutions by Adsorption on Fly Ash-Wollastonite,  
W85-03407 1807 5D

**PRASAD, K. D.**  
Analysis and Prediction of Short Period Droughts During Summer Monsoon over India,  
W85-05085 1810 2B

**PRASAD, R.**  
Effect of Soil Moisture Regimes on the Yield and Water Use of Lentil (*Lens culinaris Medic*),  
W85-05171 1810 2I

**PRASADA RAO, K. S.**  
Combined Action of Carbaryl and Phenthione on Tissue Lipid Derivatives of Murrel, *Channa punctatus* (Bloch),  
W85-05813 1810 5C

**PRASHER, S. O.**  
First and Second Order Analyses of Parameter Uncertainty in Drainage Design,  
W85-03400 1807 2E

**PRASIROVA, J.**  
Cumulation of Zinc, Cadmium and Mercury on the Alga *Scenedesmus obliquus*,  
W85-06268 1812 5C

**PRAT, M.**  
Dynamics of Contribution of Nitrogen and Phosphorus to the River Aveyron (Dynamique des apports en nutriments azotes et phosphores a la riviere Aveyron),  
W85-00092 1801 5C

Simulation of the Behaviour of Nitrogen in Soils (Simulation de l'Impact de Produits Reactifs dans les Sols - Cas de l'Azote),  
W85-02460 1805 5B

Study and Management Model of Surface-Water Nitrogen Concentration in a Cultivated Catchment (Modele d'Etude et de Gestion de la Teneur en Azote des Eaux de Surface dans un Bassin-Versant sous Culture),  
W85-02461 1805 5B

**PRATER, B. L.**  
Multivariate Statistical Analyses of 96-Hour Sediment Bioassay and Chemistry Data,  
W85-02777 1806 5A

**PRATO, T. A.**  
Reference Plant for High Temperature Electro-dialysis Desalting of Seawater,  
W85-00608 1802 3A

**PRATT, G. C.**  
Analysis of the Chemical Properties of Rain in Minnesota,  
W85-00246 1801 2K

Measurements of S(IV) and Organic Anions in Minnesota Rain,  
W85-02731 1806 5B

**PRATT, J. M.**  
Physical, Chemical, and Biological Consequences of Episodic Aluminum Additions to a Stream,  
W85-05621 1810 5C

## AUTHOR INDEX

PROFT, G.

<b>PRATT, J. R.</b> Long-Term Patterns of Protozoan Colonization in Douglas Lake, Michigan, W85-06134	1811 2H	<b>PRICE, J. F.</b> Tendency of a New Water Disinfectant to Produce Toxic Trihalomethanes, W85-01376	1803 5F	<b>PRINGLE, J. C.</b> Herbical Residues and Environmental Effects from the Experimental Application of Two 2,4-D Formulations to Control Eurasian Watermilfoil, W85-05308	1810 5C
<b>PRATT, N. C.</b> Phytoplankton Limitation by Phosphorus and Zooplankton Grazing in an Acidic Adirondack Lake, W85-02243	1805 5C	<b>PRICE, K. S.</b> Nutrient Enrichment of Chesapeake Bay and Its Impact on the Habitat of Striped Bass: A Speculative Hypothesis, W85-06409	1812 2L	<b>PRINS, T. C.</b> Relationship Between the Growth of Algae and Aquatic Macrophytes in Brackish Water, W85-05744	1810 5C
<b>PREMAZZI, G.</b> Availability of Sediment P in Lake Lugano, W85-04563	1809 2H	<b>PRICE, M.</b> Use of Pumping Tests to Evaluate a Geothermal Reservoir - the Triassic Sandstones at Marchwood, Southampton, W85-02949	1806 2F	<b>PRIOR, B. F.</b> Some Problems for a Water Authority Caused by Toxic Metals in Trade Effluents, W85-00685	1802 5E
Internal P Loading in Lakes: A Different Approach to its Evaluation, W85-04723	1809 2H	<b>PRICE, N. C.</b> Uptake and Metabolism by Goldfish <i>Carassius auratus</i> of Pentachloro-2-(Chloromethyl Sulphonamido)Diphenyl Ether (6-PCSD), the Major Component and Active Ingredient of the Mothproofing Agent, Eulan WA New, W85-03048	1806 5A	<b>PRISCU, J. C.</b> Inorganic Nitrogen Uptake in Oligotrophic Lake Taupo, New Zealand, W85-03307	1807 2K
Sedimentation Rates in a Swiss-Italian Lake Measured with Sediment Traps, W85-02100	1804 2J	<b>PRICHARD, R. B.</b> Protect and Monitor Groundwater, W85-03744	1807 5G	Seasonal Dynamics of the Deep-Chlorophyll Maximum in Castle Lake, California, W85-00890	1802 2H
<b>PREMO, B. J.</b> Predicting Concentration of Total Phosphorus and Chlorophyll a in a Lake with Short Hydraulic Residence Time, W85-06789	1812 2H	<b>PRICHARD, T. L.</b> Salination of Organic Soils in the Sacramento-San Joaquin Delta of California, W85-05927	1811 3F	Vertical Profiles of Primary Productivity, Biomass and Physico-Chemical Properties in Meromitic Big Soda Lake, Nevada, W85-01468	1803 2H
<b>PRENDIVILLE, P. W.</b> Purifying Our New England Drinking Waters, W85-07057	1812 5F	<b>PRICKETT, T. A.</b> Analytical Methods for the Prediction of Leachate Plume Migration, W85-06831	1812 5B	<b>PRISCU, L. R.</b> Inorganic Nitrogen Uptake in Oligotrophic Lake Taupo, New Zealand, W85-03307	1807 2K
<b>PREPAS, E. E.</b> Contribution of Particulate Phosphorus (> 250 micro m) to the Total Phosphorus Pool in Lake Water, W85-00151	1801 2H	<b>PRIDMORE, R. D.</b> Chlorophyll-Nutrient Relationships in North Island Lakes (New Zealand), W85-05869	1811 3C	<b>PRITCHETT, J. W.</b> Pressure Transient Analysis for Two-Phase Geothermal Wells: Some Numerical Results, W85-02163	1804 2F
Modelling Winter Oxygen Depletion Rates in Ice-Covered Temperate Zone Lakes in Canada, W85-04843	1809 2H	<b>PRIDMORE, R. D.</b> Prediction of Chlorophyll a Concentrations in Impoundments of Short Hydraulic Retention Time, W85-06177	1812 2H	<b>PRITCHETT, W. L.</b> Comparing Soil Tests for a Forested Acid Sandy Soil Topdressed with Sewage Effluent, W85-02878	1806 5E
Role of Internal Phosphorus Loading in Two Shallow, Productive Lakes in Alberta, Canada, W85-01488	1803 2H	<b>PRIEGNITZ, D. L.</b> Area-Time Integral as an Indicator for Convective Rain Volumes, W85-01542	1803 2B	<b>PROBST, J. L.</b> Nitrogen and Phosphorus Exportation in the Garonne Basin (France), W85-06049	1811 5B
Seasonal Changes in Total Phosphorus and the Role of Internal Loading in Western Canadian Lakes, W85-02630	1805 2H	<b>PRIES, J. H.</b> Two-Stage Biological Fluidized Bed Treatment of Coke Plant Wastewater for Nitrogen Control, W85-01655	1804 5D	<b>PROCHAZKOVA, L.</b> Organic Carbon in a Eutrophic Fishpond, W85-02566	1805 2H
<b>PRESHING, M.</b> Influence of Certain Toxicants on <i>Daphnia magna</i> Straus Survival Rate in Three-Factor Experiment (Vlyanie nekotorykh Toksikantov na Vyzhivayemost' <i>Daphnia magna</i> Straus v Trekh-faktornom Eksperimente), W85-06379	1812 5C	<b>PRIEST, C. J.</b> Operational Experience with Anaerobic/Aerobic Treatment System for Paper Mill Wastewater, W85-07009	1812 5D	<b>PROCHNOW, D.</b> Finite-Element Analysis of Dispersion-Affected Saltwater Upconing below a Pumping Well, W85-04015	1808 2L
<b>PRESTON, A. E.</b> Controlling Attached Blue-Green Algae with Copper Sulfate, W85-00703	1802 5G	<b>PRIEUR, J.</b> Integrated Ground Water Monitoring Program Using Multilevel Gas-Driven Samplers and Conventional Monitoring Wells, W85-03173	1806 5A	<b>PROCTOR, M. G.</b> Section 10 of the Rivers and Harbors Act and Western Water Allocations - Are the Western States up a Creek without a Permit, W85-01308	1803 6E
Scuba Diving: A Tool for Managing Water Quality, W85-03622	1807 5F	<b>PRIKHOD'KO, N. N.</b> System of Practices for Preventing Water by Agricultural Chemicals, W85-04619	1809 5G	<b>PROCTOR, M. V.</b> Acidity of Rain in Europe, W85-00245	1801 2K
<b>PRESTOWITZ, R. A.</b> Flocculation Effects on Bound Water in Sludges as Measured by Nuclear Magnetic Resonance Spectroscopy, W85-05049	1810 5D	<b>PRINCE, P.</b> New Instrumentation in Automatic Water Quality Monitoring, W85-02007	1804 5G	<b>PROEBSTING, E. L.</b> Leaf Water Potentials for Management of High Frequency Irrigation on Apples, W85-01190	1803 3F
<b>PREVOST, J.-H.</b> Nonlinear Hysteretic Dynamic Response of Soil Systems, W85-07104	1812 8D	<b>PRING, E. J.</b> Design of Small to Medium Size Cooling Systems, W85-06556	1812 5D	<b>PROFFITT, G. T.</b> Transport of Non-Uniform Sediments (Transport de Sediments Non Uniformes), W85-01229	1803 2J
<b>PRIBAN, K.</b> Heat Balance Components and Evapotranspiration from a Sedge-Grass Marsh, W85-06370	1812 2D			<b>PROFITIT, M.</b> Optimization of a Wastewater Treatment Plant by the Employee Involvement Optimization System (EIOS), W85-03330	1807 5D
<b>PRICE, D. G.</b> Sequential Sampling: A Cost-Effective Approach for Monitoring Benthic Macroinvertebrates in Environmental Impact Assessments, W85-00975	1802 6G			<b>PROFT, G.</b> Automatic Determination of Carbon Dioxide and Carbonate in Water According to the Flow-	

## AUTHOR INDEX

**PROFT, G.**

Stream Principle (Automatische Bestimmung von Kohlendioxid und Carbonat in Wasser Nach dem Flow-Stream-Prinzip),  
W85-06665 1812 5A

**PROKOPOVICH, N. P.**  
Pilot Study of Trace Metal Movement in Soils on Hillslopes in the Coast Ranges, California,  
W85-06014 1811 5B

Predictions of Future Subsidence Along Friant-Kern Canal in California,  
W85-00137 1801 8D

Validity of Density-Liquid Limit Predictions of Hydrocompaction,  
W85-00136 1801 8D

**PROMPER, R.**  
PE-PVC-Suction Cup in Sandwich Construction for Taking Seepage Water Samples, (Eine Kunststoff-Saugkerze in Sandwichbauweise zur Gewinnung von Sickerwasserproben),  
W85-03592 1807 7B

**PRONGER, D. O.**  
Waste Disposal Modelling,  
W85-05463 1810 5E

**FROSSE, M. V.**  
Seasonal and Comparative Aspects of Chemical Stratification in Some Tropical Crater Lakes, Ethiopia,  
W85-03683 1807 2H

**PROTOPOPOV, I. I.**  
Strength of a Jointed Rock Mass,  
W85-06596 1812 8E

**PROUT, N. A.**  
Use of Satellite Data for Monitoring Oil Spills in Canada,  
W85-05578 1810 7B

**PROVINI, A.**  
Internal P Loading in Lakes: A Different Approach to its Evaluation,  
W85-04723 1809 2H

**PROWSE, T. D.**  
Characteristics of Snowfalls, Snow Metamorphism, and Snowpack Structure with Implications for Avalancheing, Craigieburn Range, New Zealand,  
W85-00113 1801 2C

Energy Balance over Melting Snow, Craigieburn Range, New Zealand,  
W85-00181 1801 2C

**PRUDIC, D. E.**  
Hydraulic Conductivity of a Fine-Grained Till, Cattaraugus County, New York,  
W85-00305 1801 2F

**PRUELL, R. J.**  
Total Hydrocarbons, Polycyclic Aromatic Hydrocarbons and Synthetic Organic Compounds in the Hard Shell Clam, Mercenaria mercenaria, Purchased at Commercial Seafood Stores,  
W85-01352 1803 5C

**PRUESS, K.**  
Krafla Geothermal Field, Iceland; 2. The Natural State of the System,  
W85-03554 1807 2F

Krafla Geothermal Field, Iceland; 3. The Generating Capacity of the Field,  
W85-03555 1807 4B

Krafla Geothermal Field, Iceland; 4. History Match and Prediction of Individual Well Performance,  
W85-03556 1807 4B

**PRUITT, L. L.**  
Jordan Meets Water Supply Challenges,  
W85-00710 1802 5F

**PRUNTY, L.**  
Interrill Erosion as an Index of Mined Land Soil Erodibility,  
W85-03370 1807 2J

Percolation Tests, Soil Texture, and Saturated Hydraulic Conductivity in Lacustrine Soil in North Dakota,  
W85-06717 1812 2G

**PRYOR, D. V.**  
Modeling Physics and Chemistry of Contaminant Transport in Three-Dimensional Unsaturated Groundwater Flow,  
W85-06301 1812 2F

**PRZTYCKA-JUSIAK, M.**  
Removal of Nitrogen from Industrial Wastewaters with the Use of Algal Rotating Disks and Denitrification Packed Bed Reactor,  
W85-02425 1805 5D

**PSARIS, P. J.**  
Economic Comparison of Composting and Dual Utilization,  
W85-02300 1805 5E

**PSENNER, R.**  
Fractionation of Organic and Inorganic Phosphorus Compounds in Lake Sediments, An Attempt to Characterize Ecologically Important Fractions (Die Fraktionierung Organischer und Anorganischer Phosphorverbindungen von Sedimenten, Versuch einer Definition Ökologisch Wichtiger Fraktionen),  
W85-05728 1810 2H

Phosphorus Release Patterns from Sediments of a Meromictic Mesotrophic Lake (Piburger See, Austria),  
W85-02619 1805 5C

Trophic Relationships Between Bacteria and Protozoa in the Hypolimnion of a Meromictic Mesotrophic Lake,  
W85-05864 1811 2H

**PUCCI, A. E.**  
Behaviour of Hexachlorocyclohexane Isomers and Zn, Cu and Cd in the Freshwater-Seawater Mixing Area,  
W85-02760 1806 5B

Chlorinated Hydrocarbons in the Seawater and Surface Sediments of Blanca Bay, Argentina,  
W85-02289 1805 5B

Simplified Confirmatory Technique for Organochlorine Residues,  
W85-01456 1803 5A

Tidal Variations of Some Physico-Chemical Parameters in Blanca Bay, Argentina,  
W85-03498 1807 2L

**PUCCIA, R. J.**  
Computer-Assisted Water System Analysis and Design for Charleston, S.C.,  
W85-01907 1804 5F

**PUCHIER, E.**  
Hydroelectric Power Station at the Netstal Lime Factory (Das Wasserkraftwerk der Kalkfabrik Netstal AG),  
W85-01866 1804 8A

**PUCKORIUS, P. R.**  
Cooling-Water Treatment for Control of Scaling, Fouling, Corrosion,  
W85-01537 1803 5F

**PUCSKO, R.**  
Fractionation of Organic and Inorganic Phosphorus Compounds in Lake Sediments, An Attempt to Characterize Ecologically Important Fractions (Die Fraktionierung Organischer und Anorganischer Phosphorverbindungen von Sedimenten, Versuch einer Definition Ökologisch Wichtiger Fraktionen),  
W85-05728 1810 2H

**PUDDISTER, M.**  
Belgrave Creek: A Successful Nonpoint Pollution Control Project in Rural Ontario,  
W85-03955 1811 5G

**PUDDU, A.**  
Phytoplankton Distribution in the Coastal Area Subject to the Impact with the Tiber River Outfall,  
W85-02569 1805 5C

**PUFFER, H. W.**  
Histologic and Skeletal Abnormalities in Benzo(a)pyrene-Treated Rainbow Trout Alewives,  
W85-03223 1807 5C

Oxygen Consumption Rates of Grunion (*Leuresthes tenuis*) Embryos Exposed to the Petroleum Hydrocarbon, Benzo(a)pyrene,  
W85-04341 1808 5C

**PUFFER, J. H.**  
Asbestos in Lake and Reservoir Waters of Staten Island, New York: Source, Concentration, Mineralogy, and Size Distribution,  
W85-06160 1811 5B

**PUGH, C. A.**  
Hydraulic Model Studies on Bulb Turbine Intakes,  
W85-05307 1810 8C

**PUGH, L. B.**  
ATP as a Measure of Active Biomass Concentration and Inhibition in Biological Wastewater Treatment Processes,  
W85-05561 1810 5D

**PUHAKAINEN, M.**  
Transport of Airborne 90Sr and 137Cs Deposited in the Basins of the Five Largest Rivers in Finland,  
W85-03678 1807 5B

**PUHAKKA, J. A.**  
Influence of Sulfur Compounds on Biogas Production from Forest Industry Wastewater,  
W85-07021 1812 5D

**PUIHE, J.**  
Chemical State of Forest Springs in the Kaufunger Wald (Chemischer Zustand von Quellen im Kaufunger Wald),  
W85-06444 1812 2H

**PULLIN, D. I.**  
Behaviour of a Converging-Channel Breakwater: Theory and Experiment,  
W85-00713 1802 8B

**PUM, M.**  
Effect of Sewage Removal on Lake Water Quality (Fuschlsee, Salzburg, Austria),  
W85-02525 1805 5C

**PUNTHAKEY, J. F.**  
Stomatal Responses to Leaf Water Potentials of Drip Irrigated Peach (*Prunus persica*),  
W85-04746 1809 2I

**PUOLANNE, J.**  
Disposal and Utilization Possibilities of Septage,  
W85-05205 1810 5D

**PURCELL, T. W. III**  
Effects of Runoff from Undeveloped Versus Lightly Developed Watersheds on Tropical Planktonic Ecosystem,  
W85-01810 1804 5C

**PURDY, R. N.**  
Note on a Membrane Filtration Method for the Concentration and Enumeration of Bacteriophages from Water,  
W85-06180 1812 5A

**PURI, S.**  
Aquifer Studies Using Flow Simulations,  
W85-02685 1805 2F

## AUTHOR INDEX

RAGO, P. J.

Lumped Parameter Model: Further Application in Chalk Aquifers, U.K.,  
W85-06827 1812 2F

**PURUSHOTHAM, K. R.**  
Effect of Cupric Chloride on Oxidative Metabolism in the Freshwater Teleost, Tilapia mossambica,  
W85-00271 1801 5C

**PURVES, W.**  
Behaviour of Crude Oil Spilled Under Multi-Year Ice,  
W85-06987 1812 5B

**PUTNAM, M. E.**  
Toxic Effects of Petroleum and Shale JP-4 and JP-8 Aviation Fuels on Fathead Minnows,  
W85-06238 1812 5C

**PUTZ, G.**  
Microorganism Survival in an Ice-Covered River,  
W85-01708 1804 5B

**PYATNITSKII, N. V.**  
Electrolytic Enrichment of Water Samples with Low Tritium Concentrations,  
W85-04138 1808 2F

**PYPER, G. E.**  
Surface Water and Climatologic Data, Salt Lake County, Utah, Water Year 1981, With Selected Data for Water Years 1980 and 1982,  
W85-00603 1802 7C

**QADRI, S. U.**  
Long-Term Effects of Arsenic Accumulation in Rainbow Trout, *Salmo gairdneri*,  
W85-00884 1802 5C

**QASIM, S. R.**  
More Economical Treatment of Chromium-Bearing Wastes,  
W85-05244 1810 5D

**QASIM, S. Z.**  
Use of Electrophoresis and Immunoelectrophoresis in Taxonomic and Pollution Studies,  
W85-02343 1805 5C

**QUAGHEBEUR, D.**  
Polycyclic Aromatic Hydrocarbons in Rainwater,  
W85-00741 1802 5B

**QUALIS, R. G.**  
Comparison of Methods of Enumerating Coliforms After UV Disinfection,  
W85-02938 1806 5A

Role of Leaf Litter Nitrogen Immobilization in the Nitrogen Budget of a Swamp Stream,  
W85-03862 1808 2L

**QUEEN, R. M.**  
Fish Mortality Following Application of Phenthaoate to Florida Citrus,  
W85-00135 1801 5C

**QUEGUINER, B.**  
Studies on the Phytoplankton in the Bay of Brest (Western Europe). Seasonal Variations in Composition, Biomass and Production in Relation to Hydrological and Chemical Features (1981 and 1982),  
W85-03840 1808 2L

**QUEIROZ, O.**  
Changes in the Content of Polyamines and Their Precursors During the Morphogenetic Adaptation in Rape, *Brassica napus* L. var. oleifera M. a la secheresse (Variations des teneurs en polyamines et leur précurseurs au cours de l'adaptation morphogénétique du Colza, *Brassica napus* L. var. oleifera M. a la sécheresse),  
W85-02338 1805 2I

**QUENTIN, K.-E.**  
Determination of Chlorine Dioxide and Chlorite in Drinking-Water (Bestimmung von Chlor-Dioxid und Chlorit im Trinkwasser),  
W85-01664 1804 5F

Original Purity - Demands and Criteria According to the New Mineral Water and Table Water Ordinance (Ursprungliche Reinheit - Anforderung und Kriterien nach der neuen Mineral- und Tafelwasser-Verordnung),  
W85-05453 1810 5F

**QUIMPO, R. G.**  
Rainfall Energy From Drop Size Data,  
W85-01696 1804 2B

**QUINBY, H. L.**  
Effect of Lake pH on Microbial Decomposition of Allochthonous Litter,  
W85-04200 1808 5C

**QUINLIVAN, S.**  
Characteristics of Leachates from Hazardous Waste Landfills,  
W85-02118 1804 5B

**QUINN, C. E.**  
Soft Rot *Erwinia* Bacteria in Surface and Underground Waters in Southern Scotland and in Colorado, United States,  
W85-03297 1807 5B

**QUINN, J. G.**  
Total Hydrocarbons, Polycyclic Aromatic Hydrocarbons and Synthetic Organic Compounds in the Hard Shell Clam, *Mercenaria mercenaria*, Purchased at Commercial Seafood Stores,  
W85-01352 1803 5C

Urban Runoff as a Source of Polycyclic Aromatic Hydrocarbons to Coastal Waters,  
W85-02108 1804 5B

**QUINN, J. P.**  
Planktonic and Benthic Bacterial Populations of Loug Neagh,  
W85-05807 1810 2H

**QUINN, S. O.**  
Lake Acidification and the Biology of Adirondack Lakes I. Rotifer Communities,  
W85-02646 1805 5C

**RAATZ, W.**  
Rainfall Fluctuations in India and Sri Lanka and Large-Scale Rainfall Anomalies,  
W85-05093 1810 2B

**RABE, R.**  
Effects of Copper Chelate on Photosynthesis and Some Enzyme Activities of *Eloea canaden-sis*,  
W85-01083 1802 5C

**RABER, E.**  
Borehole Collector for in-situ Chemical Analyses of Ground Water,  
W85-00328 1801 7B

**RABINOWITZ, M.**  
Lead in Umbilical Blood, Indoor Air, Tap Water, and Gasoline in Boston,  
W85-03339 1807 5C

**RABKOVA, E. K.**  
Kinematic Structure of Flow in a Trapezoidal Channel,  
W85-04421 1809 8B

**RABOSKY, J. G.**  
Wastewater Treatment for a Small Chrome Plating Shop: A Case History,  
W85-05429 1810 5D

Water and Wastewater Survey for the Brazilian Merck, Sharp and Dohme Chemical and Pharmaceutical Plant,  
W85-05251 1810 5D

**RABSCHE, U.**  
Influence of Low Concentrations of Cadmium, Copper and Zinc on Phytoplankton of Natural Water Samples,  
W85-02803 1806 5C

**RACE, M. S.**  
Critique of Present Wetlands Mitigation Policies in the United States Based on an Analysis of Past Restoration Projects in San Francisco Bay,  
W85-05070 1810 2L

**RACHHPAL-SINGH,**  
Diffusion of Urea, Ammonium and Soil Alkalinity from Surface Applied Urea,  
W85-04249 1808 2K

**RACHLIN, J. W.**  
Toxicological Response of the Alga *Anabaena flos-aqua* (Cyanophyceae) to Cadmium,  
W85-02197 1805 5C

**RACHWAL, A.**  
Biological Phosphorus and Nitrogen Removal Via the A/O Process: Recent Experience in The United States and United Kingdom,  
W85-03644 1807 5D

**RACINE, C. H.**  
Effect of Pond Storage on the Hydrologic and Nutrient Output of a Forested Watershed in Northern Vermont,  
W85-00612 1802 5A

**RACK, C.**  
River Gauging by Ultrasonics in Open Channels: Instruments and Experience Abroad (Abflussermittlung in offenen Gerinnen mittels Ultrachallimessung: Im Ausland eingesetzte Geräte und gewonnene Erfahrungen),  
W85-06157 1811 2E

Theory of Fuzzy Subsets and Its Applications to Water-Resources Planning (Die Theorie unscharfer Teilmengen und ihre Anwendung in der Wasserwirtschaft),  
W85-04806 1809 6A

**RADCLIFFE, D.**  
Effect of Moisture Stress on Seed Growth in Soybeans,  
W85-03356 1807 2I

**RADDUM, G. G.**  
Acidification and Early Warning Organisms in Freshwater in Western Norway,  
W85-05678 1810 5A

Effects of Winter Warm Reservoir Release on Benthic Stream Invertebrates,  
W85-06385 1812 6G

**RADHAKRISHNA, H. S.**  
Coupled Heat and Moisture Flow Through Soils,  
W85-03814 1808 2G

**RADWAN, S.**  
Groups of Pelagic Zooplankton in Three Lakes of Different Trophy,  
W85-00228 1801 2H

**RAFFELINI, F.**  
Contribution to the Study of Phosphate Ion Desorption During the Dilution of Urban Sewage Outfalls in the Marine Environment,  
W85-04380 1808 5B

**RAGHAVAN, V. R.**  
Influence of Noncondensables on Modern Thermal Desalination,  
W85-01226 1803 3A

**RAGHUNANDANA, H. S.**  
Wastewater Treatment in a Deep Aeration Tank,  
W85-04981 1810 5D

**RAGO, P. J.**  
Production Forgone: An Alternative Method for Assessing the Consequences of Fish Entrain-

## AUTHOR INDEX

**RAGO, P. J.**

ment and Impingement Losses at Power Plants and Other Water Intakes, W85-01025 1802 6B

Species Composition of Fish Communities in Northern Wisconsin Lakes: Relation to pH, W85-04206 1808 5C

**RAGONE, A.**  
Effects of Viscosity and Surface Tension on Slot Weirs Flow, W85-07029 1812 8B

**RAHEL, F. J.**  
Factors Structuring Fish Assemblages Along a Bog Lake Successional Gradient, W85-01891 1804 2H

**RAHI, G. S.**  
Evapotranspiration of Lettuce in Relation to Water Table Depth, W85-03399 1807 2G

**RAHMAN, A. A.**  
Ecological Effects of Heather Burning; I. Water Infiltration, Moisture Retention and Porosity of Surface Soil, W85-03739 1807 2G

**RAHN, P. H.**  
Flood-plain Management Program in Rapid City, South Dakota, W85-01643 1804 2E

**RAI, H.**  
Limnology of the Kern River (Southern California), W85-03124 1806 2H

Preliminary Characterization of the Tropical Lakes of the Central Amazon by Comparison with Polar and Temperate Systems, W85-00869 1802 2H

Primary Production of Various Size Fractions of Natural Phytoplankton Communities in a North German Lake (Primärproduktion verschiedener Grossenfraktionen der natürlichen Phytoplanktongemeinschaften in einem norddeutschen See), W85-00772 1802 2H

**RAI, L. C.**  
Water Pollution - Phycological Perspectives, W85-06266 1812 5C

**RAICH, J. W.**  
Throughfall and Stem Flow in Mature and Year-Old Wet Tropical Forest, W85-04853 1809 2I

**RAILA, S. J.**  
Investigations of Leachate Contamination of Ground and Surface Waters at the Fresh Kills Landfill, New York City, W85-05369 1810 5B

**RAINE, J. L.**  
Dimictic Thermal Regime and Morphology of Blue Lake in the Snowy Mountains of New South Wales, W85-00790 1802 2H

**RAITALA, J.**  
Application of Landsat Satellite Data for Mapping Aquatic Areas in North-Eastern Finland, W85-06805 1812 7B

Landsat Classification of the Hydrolitoral Areas of the Bay of Liminka (Gulf of Bothnia, Finland), W85-03491 1807 7B

**RAIJUNEC, A. E.**  
Use and Re-Use of Itaipu's Diversion Gates, Part Two, W85-01553 1803 8C

**RAJAGOPAL, R.**  
Optimal Sampling Strategies for Source Identification in Environmental Episodes, W85-06283 1812 5A

**RAJAN, C. K.**  
Some Aspects of the Rainfall of Kerala and Adjoining Areas I. The Southwest Monsoon Rainfall of Cochin, W85-01466 1803 2B

**RAJAN, P. K.**  
Slumpings of the Valleys Encompassing Idukki Reservoir, Central Kerala, India, W85-00961 1802 4D

**RAJARATNAM, N.**  
Experimental Study of Bluff Surface Discharges with Small Richardson Number, W85-07032 1812 5B

Free Flow Upstream of Vertical Sluice Gates, W85-00524 1802 8B

LDA Measurements in Open Channel, W85-04399 1808 8B

Non-Buoyant and Buoyant Circular Surface Jets in Colflowing Streams, W85-00196 1801 8B

Turbulent Non-Buoyant Surface Jets, W85-00195 1801 8B

**RAJARATNUM, N.**  
Hydraulics of Denil Fishways, W85-02451 1805 8I

**RAJENDRAN, N.**  
Effect of Pesticides on Photosynthesis and Respiration of Marine Macrophytes, W85-02795 1806 5C

**RAK, S. F.**  
Reverse Osmosis Membrane Fouling and Treatment Considerations, W85-05993 1811 3A

**RAKHECHA, P. R.**  
Rainfall Distribution Over India During the Monsoon Months in the Absence of Depressions and Cyclonic Storms, W85-05081 1810 2B

**RAKNESS, K. L.**  
Design, Start-Up, and Operation of an Ozone Disinfection Unit, W85-03866 1808 5D

Ozone Disinfection Design and Operation Considerations, W85-05827 1810 5D

**RAKOWSKI, P. W.**  
Status of Colonial Waterbirds Nesting in Southern Manitoba, W85-06844 1812 2H

**RALPH, K. M.**  
Copper Complexation and Toxicity to Freshwater Zooplankton, W85-02211 1805 5C

**RALSTON, D. R.**  
Hydrogeochemistry of the Meade Thrust Allochthon, Southeastern Idaho, U.S.A., and Its Relevance to Stratigraphic and Structural Groundwater Flow Control, W85-05531 1810 2F

**RAM MOHAN, H. S.**  
Agroclimatic Approach to the Assessment of Tropical Droughts, W85-05080 1810 2B

Spatial Correlation of the Southwest Monsoon Rainfall Over the Southern Districts of Kerala, W85-01464 1803 2B

Studies on Droughts of Tamil Nadu with Special Reference to Their Spread and Severity, W85-05073 1810 2B

**RAM, N. M.**  
Chlorine Residual Monitoring in the Presence of N-Organic Compounds, W85-03618 1807 5F

Multiple Bioassays to Assess the Toxicity of a Sanitary Landfill Leachate, W85-02202 1805 5A

**RAM, R. S.**  
Solution of the Kinematic-Wave Equations for Border Irrigation, W85-03485 1807 3F

**RAMA KRISHNA, Y. S.**  
Agricultural Droughts and Crop Planning - a Case Study for Western Rajasthan, W85-05076 1810 2B

Prediction of Droughts in the Indian Arid Region, W85-05084 1810 2B

**RAMACHANDRAN, K. K.**  
Slumpings of the Valleys Encompassing Idukki Reservoir, Central Kerala, India, W85-00961 1802 4D

**RAMACHANDRAN, S.**  
Effect of Pesticides on Photosynthesis and Respiration of Marine Macrophytes, W85-02795 1806 5C

**RAMACHANDRAN, V. S.**  
Physico-Mechanical Characteristics of Hydrating Tetracalcium Aluminoferrite System at Low Water/Solid Ratios, W85-00696 1802 8F

**RAMAKRISHNA RAO, A.**  
Bed Shear from Velocity Profiles: A New Approach, W85-04400 1808 8B

**RAMAKRISHNA RAO, G.**  
Extreme Probability Analysis of Drought Periods in Monsoon in Relation to Water Need of Crop Stages, W85-05090 1810 2B

**RAMAMOORTHY, S.**  
Competition of Fate Processes in the Bioconcentration of Lindane, W85-05011 1810 5B

Uptake of Zn, Cd, and Hg by Fish in the Presence of Competing Compartments, W85-00891 1802 5B

**RAMAMURTHI, R.**  
Effect of Cupric Chloride on Oxidative Metabolism in the Freshwater Teleost, Tilapia mossambica, W85-00271 1801 5C

**RAMAMURTHY, A. S.**  
Pressure and Source Size Effects on Cavitation Damage, W85-03014 1806 8C

**RAMAN, A. V.**  
Pollution Effects on Ecobiology of Benthic Polychaetes in Visakhapatnam Harbour (Bay of Bengal), W85-00803 1802 5C

**RAMAN, R. K.**  
Aeration-Destratification of Lake Eureka: Second Year Operation, W85-06344 1812 5G

Water Quality and Watershed Land Use of Johnson Sauk Trail Lake, W85-05722 1810 6G

**RAMAN, V.**  
Status of Research and Development in Water Supply Systems in India, W85-01982 1804 3D

**RAMANA RAO, B. V.**  
Agricultural Droughts and Crop Planning - a Case Study for Western Rajasthan, W85-05076 1810 2B

## AUTHOR INDEX

**RAO, P. S. C.**

Prediction of Droughts in the Indian Arid Region, W85-05084 1810 2B

**RAMANA RAO, K. V.**  
Combined Action of Carbaryl and Phenthaoate on Tissue Lipid Derivatives of Murrel, Channa punctatus (Bloch), W85-05813 1810 5C

**RAMASWAMY, S. N.**  
Biological Assessment of Water Pollution: A Study of the River Kapila, W85-05033 1810 5A

Fluoride Concentration in the Water of the River Cauvery, Karnataka, India, W85-05448 1810 5B

Trace Metal Concentrations of the Waters of a South Indian River, W85-01751 1804 5B

**RAMAZANOV, M. P.**  
Development of Finite-Amplitude Disturbances in Poiseuille Flow, W85-03750 1807 8B

**RAMBAEK, J. P.**  
Particle Discrimination Effects in the Determination of Trace Metals in Natural Fresh Waters, W85-06252 1812 5A

**RAMBAL, S.**  
Simulation of the Utilization of Water and of Plant Production of a Sahelian Phytoecose in Senegal (Simulation de l'utilisation de l'eau et de la production vegetale d'une phytocenose sahelienne du Senegal), W85-01179 1803 2I

Water Balance and Pattern of Root Water Uptake by a Quercus coccifera L. Evergreen Scrub, W85-00207 1801 2I

**RAMBERG, L.**  
Phytoplankton Gradients During the Rainy Season in Lake Kariba, W85-05644 1810 2H

**RAMBERG, S. E.**  
Finite Element Modelling of Surface Waves in a Channel, W85-04014 1808 8B

**RAMEY, H. J. JR.**  
Detection of Linear Boundaries by Drawdown Tests: A Semilog Type Curve Matching Approach, W85-05793 1810 2F

**RAMIREZ, E. R.**  
Recycling Undiluted Dragout from Toxic Plating Solutions, W85-05242 1810 5F

**RAMIREZ, H. M.**  
Optimal Operation of California Aqueduct, W85-06033 1811 4A

**RAMIREZ, J. A.**  
Conditional Distributions of Neyman-Scott Models for Storm Arrivals and Their Use in Irrigation Scheduling, W85-05795 1810 2B

**RAMON, G.**  
Composition and Dynamics of Phytoplankton in the Cuber Reservoir, Spain, W85-05639 1810 2H

Seasonal Variations in the Vertical Distribution of Oscillatoriella rubescens D.C. in the Gorg Blau Reservoir, Spain, W85-05640 1810 2H

**RAMSEY, C. E.**  
Comparative Bases of Industry Pollution Abatement and Commercial Innovation: Implications for Water Resources Management, W85-06243 1812 5G

**RAND, J. A.**  
Microwave Measurements of Moisture Distributions in the Upper Soil Profile, W85-02160 1804 2G

**RANDALL, A. D.**  
Stratified-Drift Aquifers in the Susquehanna River Basin, New York, W85-03896 1808 2F

**RANDALL, C. W.**  
Nitrite Build-Up in Activated Sludge Resulting from Combined Temperature and Toxicity Effects, W85-02586 1805 5D

Nitrite Build-Up in Activated Sludge Resulting from Temperature Effects, W85-02585 1805 5D

Qual II Model, W85-02821 1806 5A

**RANDALL, E. W.**  
Microprocessor-Based Data Monitoring and Control System for a Continuous Ion Exchange Plant, W85-00251 1801 3A

**RANDALL, T. L.**  
Bench-Scale Treatment of Lurgi Gasifier and H-Coal Wastewaters by the PACT System, W85-04037 1808 5D

Wet Oxidation of PACT Process Carbon Loaded with Toxic Compounds, W85-05420 1810 5D

**RANDAZZO, A. F.**  
Classification and Description of Dolomitic Fabrics of Rocks from the Floridan Aquifer, U.S.A., W85-01733 1804 2F

Mineralogical Changes Along the Freshwater/Saltwater Interface of a Modern Aquifer, W85-06700 1812 2F

**RANDOLPH, R. B.**  
Comparison of Aquifer Characteristics Derived from Local and Regional Aquifer Tests, W85-06819 1812 2F

**RANGANATH, Y. S. L.**  
Pressure and Source Size Effects on Cavitation Damage, W85-03014 1806 8C

**RANGO, A.**  
Using Heat Capacity Mapping Mission (HCMM) Data to Assess Lake Water Quality, W85-02975 1806 5A

Utilization of Satellite Snow-Cover Observations for Seasonal Streamflow Estimates in the Western Himalayas, W85-01233 1803 7B

**RANI, S.**  
Pollution and Saprobic Status of Eastern Kalinadi, W85-00798 1802 5C

**RANKEN, A.**  
EPA v. National Crushed Stone Association, W85-02180 1805 6E

**RANTALA, P.**  
Cost Comparison of Aerobic and Anaerobic Wastewater Treatment Systems, W85-07018 1812 5D

**RANZAU, C. E.**  
Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Brazoria, Fort Bend, and Waller Counties, Texas, 1975-79, W85-01819 1804 2F

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of

Ground Water in Chambers, Liberty, and Montgomery Counties, Texas, 1975-79, W85-01818 1804 2F

**RAO, A. B.**  
Effect of Some Molluscicides on the Rate of Survival and Oxygen Consumption of a Freshwater Leech, *Poeciliobdella viridis* (Blanchard), W85-04376 1808 5C

**RAO, A. R.**  
Depth-Duration Models of Short Time Increment Rainfall, W85-01683 1804 2B

Heuristic Method for Measurement and Characterization of River Meander Wavelength, W85-03168 1806 2E

**RAO, A. V.**  
Agricultural Droughts at Peddapuram, East Godavari District, Andhra Pradesh, W85-02126 1804 2I

Cellulose Triacetate Membranes for Seawater Desalination, W85-05115 1810 3A

Cellulose Triacetate Membranes for Seawater Desalination, W85-07096 1812 3A

**RAO, D. R.**  
Effect of Mercuric Chloride on Some Biochemical and Physiological Parameters of the Freshwater Murrel, *Channa punctatus*, W85-02727 1806 5C

**RAO, G. G. S. N.**  
Agricultural Droughts and Crop Planning - a Case Study for Western Rajasthan, W85-05076 1810 2B

Prediction of Droughts in the Indian Arid Region, W85-05084 1810 2B

**RAO, K. R.**  
Histopathological Changes in Grass Shrimp Exposed to Chromium, Pentachlorophenol and Dithiocarbamates, W85-05894 1811 5C

**RAO, M. G.**  
Removal of Phenol Using Water Hyacinth in a Continuous Unit, W85-05449 1810 5D

**RAO, N. H.**  
Recharge to Aquifers with Mixed Boundaries, W85-03081 1806 2F

**RAO, P. S.**  
Acute Toxicity of Antimycin A, Bayer 73 and 3-Trifluoromethyl-4-Nitrophenol to a Freshwater Teleost *Lebiasina reticulata* (Peters), W85-03236 1807 5C

Acute Toxicity of Phenol, Pentachlorophenol and Sodium Pentachlorophenate to a Freshwater Ostracod *Cypris subglobosa* (Sowerby), W85-06271 1812 5C

Sensitivity of Toad Larvae to 2,4-D and Endosulfan Pesticides, W85-01369 1803 5C

Studies on the Toxicity of Pentachlorophenol, Sodium-pentachlorophenate and Phenol to a Pulmonate Snail *Lymnaea luteola* (Lamarck), W85-04059 1808 5C

**RAO, P. S. C.**  
Simulation of Nitrogen Dynamics in Flooded Soils, W85-03092 1806 2K

Sorption and Leaching of Three Nonfumigant Nematicides in Soils, W85-06426 1812 5B

## AUTHOR INDEX

**RAO, R. A.**

**RAO, R. A.**  
Cadmium Uptake by the Water Hyacinth: Effects of Solution Factors, W85-00682 1802 5C

**RAO, S. S.**  
Bacterial Activity in Sediments of Lakes Receiving Acid Precipitation, W85-03047 1806 2H

Effects of Low-pH Stress on the Morphology and Activity of Bacteria from Lakes Receiving Acid Precipitation, W85-02482 1805 5C

Influence of Acid Precipitation on Bacterial Populations in Lakes, W85-00404 1801 5C

Oxygen Depletion in Central and Eastern Lake Erie: Relationship with Bacteria, Chlorophyll, POC, and Morphometry, W85-01752 1804 2H

**RAO, S. V. R.**  
Biological Effect of Some Poisons on *Canthocampus* (Crustacea spp), W85-05446 1810 5C

**RAO, V. C.**  
Isolation of Enteroviruses from Water, Suspended Solids, and Sediments from Galveston Bay: Survival of Poliovirus and Rotavirus Adsorbed to Sediments, W85-02599 1805 5A

**RAO, Y. Y.**  
Modification of Irrigation Requirement of Wheat Through Mulching and Foliar Application of Transpiration Suppressants, W85-05923 1811 3F

**RAOUS, P.**  
Areal Reduction Factors on Short Time and Space Intervals, W85-01690 1804 2B

Flood Protection in the Loire Valley Downstream Vienne Confluence (Protection des Vals de Loire en Aval de la confluence avec la Vienne), W85-02355 1805 4A

**RAPHAEL, R. A.**  
Long-Term Survival of Human Rotavirus in Raw and Treated River Water, W85-06137 1811 5B

Rotavirus Survival in Conventionally Treated Drinking Water, W85-00897 1802 5A

**RAPIN, F.**  
Basic Concepts and Associated Statistical Methodology in the Geochemical Study of Lake Sediments, W85-02064 1804 2J

Trace Metals in Oxic Lake Sediments: Possible Adsorption onto Iron Oxyhydroxides, W85-04757 1809 5B

**RASHED, A. A.**  
Hydrodynamic Pressure On Short-Length Gravity Dams, W85-07102 1812 8A

**RASK, M.**  
Autumnal and Vernal Circulation of Small Forest Lakes in Southern Finland, W85-02607 1805 2H

**RASMUSON, A.**  
Approach to Modeling Radionuclide Migration in a Medium with Strongly Varying Velocity and Block Sizes Along the Flow Path, W85-03988 1808 5B

Migration of Radionuclides in Fissured Rock: Analytical Solutions for the Case of Constant Source Strength, W85-03167 1806 2F

**RASMUSSEN, K.**  
Interactions between Phytoplankton, Zooplankton, and Fish in the Nutrient Rich Shallow Lake Hjarbaek Fjord, Denmark, W85-02564 1805 2H

**RASSKAZOV, L. N.**  
Calculation of the Three-Dimensional Stress-Strain State of an Earth-Rock Dam, W85-00436 1801 8A

Stability of a Pebble Dam with an Injected Core, W85-05026 1810 8D

**RASULOV, M. A.**  
Investigation of Water Circulation in the Northwestern Black Sea and Its Relation to Human Impact on River Runoff, W85-04118 1808 2E

**RASUMIKHINA, K. V.**  
Present Time Regime of Sediment Discharge in the Mouth Region of the River Ob (Sovremenny Rezhim Stoka Nanosov V Ust'evoi Oblasti R. Obi), W85-06807 1812 2J

**RATCLIFF, S. M.**  
Bonded-Phase Extraction Column Isolation of Organic Compounds in Groundwater at a Hazardous Waste Site, W85-03734 1807 5A

**RATHOD, K. S.**  
Numerical Method of Pumping Test Analysis Using Microcomputers, W85-02694 1805 4B

**RATHORE, L. S.**  
Water Hyacinth Canopy and Pan Evaporation, W85-02128 1804 4A

**RATKOVICH, D. YA.**  
Control of Azov Sea Salinity by Regulating Water Exchange in the Kerch Strait, W85-04103 1808 5G

**RATSEP, A. I.**  
Assay for Biologically Available Phosphorus Using Proteolytic *Aeromonas hydrophila*, W85-02285 1805 5A

**RATZLAFF, K. W.**  
Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Brazoria, Fort Bend, and Waller Counties, Texas, 1975-79, W85-01819 1804 2F

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Chambers, Liberty, and Montgomery Counties, Texas, 1975-79, W85-01818 1804 2F

**RAU, R.**  
Application of Tracer Techniques for Determining the Water Balance in Small Catchment Basins; A Research Concept for the Experimental Basins in the Upper Harz Mountains (Anwendung von Tracermethoden zur Erfassung des Wassersatzes in kleinen Einzugsgebieten; Ein Forschungskonzept für die Oberharzer Untersuchungsgebiete), W85-04804 1809 2A

**RAUBER, R. M.**  
Comparison of the Potential of Cloud Seeding to Enhance Mountain Snowpack in Colorado During Dry, Normal and Wet Winters, W85-04211 1808 3B

**RAUDKIVI, A. J.**  
Erosion of Cohesive Soils, W85-02953 1806 2J

Scour at Cylindrical Bridge Piers in Armored Beds, W85-06042 1811 2J

**Transient Two-Dimensional Flow, W85-00690** 1802 2F

**RAUPACH, D. C.**  
National Survey of Elements and Other Constituents in Municipal Sewage Sludges, W85-02192 1805 5E

**RAV-ACHA, C.**  
Reactions of Chlorine Dioxide With Aquatic Organic Materials and Their Health Effects, W85-02904 1806 5C

**RAV-ACHA, CH.**  
Determination of Oxidants Formed upon the Disinfection of Drinking Water with Chlorine Dioxide, W85-01743 1804 5A

**RAVELINGENI, M. C.**  
Polycyclic Aromatic Hydrocarbons in Rainwater, W85-00741 1802 5B

**RAVERA, O.**  
Assessment of the Trophic State of a Water Body, W85-02328 1805 2H

Importance of Macrophytes in Two Lakes with Different Trophic Degree: Lake Comabbio and Lake Monate (Province of Varese, Northern Italy), W85-04564 1809 2H

Total Phosphorus Load to Lake Monate (Northern Italy, Varese) (Stima Del Carico Di Fosforo Totale Al Lago Di Monate (Provincia Di Varese, Italia Settentrionale)), W85-02501 1805 5B

**RAVICHANDRAN, S.**  
Effect of Phenol on the Phosphomonoesters and ATPase Activity in the Fish *Sarotherodon Mossambicus* (Peters) in Saline Waters, W85-06425 1812 5C

**RAVID, R.**  
PCBs, DDTs and Other Chlorinated Hydrocarbons: Marine Organisms from the Mediterranean Coast of Israel, W85-04894 1809 5B

**RAVINA, I.**  
Hydraulic Conductivity and Water Retention of Clay Soils Containing Coarse Fragments, W85-02320 1805 2G

**RAVINDRANATH, M.**  
Study of Aridity and Droughts in the Climatic Spectrum of the South Indian Region, W85-05079 1810 2B

**RAVIV, R.**  
Simple Algorithm for On-Line Prediction of BOD5 by a Microprocessor-Based System, W85-02951 1806 5A

**RAWLINS, D. S.**  
Time-Domain Reflectometry: Simultaneous Measurement of Soil Water Content and Electrical Conductivity with a Single Probe, W85-00220 1801 7B

**RAWLS, W. J.**  
Estimating Urban Time of Concentration, W85-01557 1803 2E

**RAWN, G. P.**  
Bioaccumulation of Some Forestry Pesticides in Fish and Aquatic Plants, W85-06772 1812 5C

**RAWSON, J.**  
Effects of Storm-Water Runoff on Water Quality of the Edwards Aquifer near Austin, Texas, W85-03914 1808 5B

**AUTHOR INDEX**

REES, J.

**RAY, S.**  
Uptake of Cadmium by Eggs and Alevins of Atlantic Salmon (*Salmo salar*) as Influenced by Acidic Conditions, W85-05012 1810 5C

**RAYMOND, C. F.**  
Glacier Surge Mechanism: 1982-1983 Surge of Variegated Glacier, Alaska, W85-04472 1809 2C

**RAYMOND, G. L.**  
Techniques for Reducing Contaminant Release During Dredging Operations, W85-00573 1802 5G

**RAYMOND, K. M.**  
Protecting the People's Waters: The California Supreme Court Recognizes Two Remedies to Safeguard Public Trust Interests in Water, W85-02182 1805 6E

**RAYNER, F. A.**  
Aquifer Modeling with a Handheld Calculator - AQMODL, W85-00362 1801 4A

**LGWRES - Lift of Ground-Water Reserves,** W85-04643 1809 4B

**RAYNOR, G. S.**  
Frequency Distributions for Durations and Volumes of Rainfalls in the Eastern United States in Relation to Acidic Precipitation, W85-02926 1806 2B

**RAZACK, M.**  
Survey of a Coastal Karstic Aquifer by Analysis of the Effect of the Sea-tide: Example of the Kras of Slovenia, Yugoslavia, W85-03980 1808 2F

Use of Krigging to Forecast Fracturation of Rocks (Prévision par Krigeage de la Fracturation des Roches), W85-03536 1807 2F

**RAZEM, A. C.**  
Ground-Water Hydrology and Quality before and after Strip Mining of a Small Watershed in Jefferson County, Ohio, W85-01943 1804 4C

Ground-Water Hydrology before, during, and after Coal Strip Mining of a Small Watershed in Coshocton County, Ohio, W85-00857 1802 5B

Simulation of Ground-Water Flow in a Mined Watershed in Eastern Ohio, W85-02687 1805 4C

**READ, P. A.**  
Effects of Pollution on the Benthos of the Firth of Forth, W85-00800 1802 5C

**READING, J. T.**  
1980 Whippany River Intensive Survey, Intensive Survey No. 803403, W85-00820 1802 5B

Beden Brook Intensive Stream Survey, Spring/Summer, 1982: Intensive Survey No. 823404, W85-00817 1802 5A

Lower Cuckels Brook Water Body Survey and Use Attainability Analysis, W85-06361 1812 5C

**READMAN, J. W.**  
Physico-Chemical Speciation of Polycyclic Aromatic Hydrocarbons (PAH) in Aquatic Systems, W85-03282 1807 5B

**REALI, M.**  
Refrigerator-Heat-Pump Desalination Scheme for Fresh-Water and Salt Recovery, W85-02957 1806 3A

**REARDON, E. J.**  
Effects of Groundwater Geochemistry on the Permeability of Grouted Fractures, W85-03416 1807 2F

**REASONER, D. J.**  
Bacterial Colonization of Point-of-Use Water Treatment Devices, W85-04834 1809 5F

New Medium for the Enumeration and Subculture of Bacteria from Potable Water, W85-04255 1808 5A

**REAVELL, P. E.**  
Effects of Dredging on the Macrophytic Vegetation of the Boro River, Okavango Delta, Botswana, W85-03762 1807 6G

**REBERTUS, R.**  
Comparing Soil Tests for a Forested Acid Sandy Soil Topdressed with Sewage Effluent, W85-02878 1806 5E

**REBHUN, M.**  
Contact Flocculation-Filtration of Humic Substances, W85-01722 1804 5D

Kinetic Studies of Chemical and Biological Treatment for Renovation, W85-07053 1812 5D

**REBORREDO, F. H. S.**  
Trace Metal Content of Live Tissues in Halimione portulacoides from Coastal Areas of the Sado Estuary, Portugal, W85-02959 1806 5B

Trace Metal Content of Live Tissues of Halimione portulacoides from the Coastal Areas of the Sado Estuary, Portugal, W85-06558 1812 5B

Vertical Distribution of Al, Cu, Fe and Zn in the Soil Salt Marshes of the Sado Estuary, Portugal, W85-05032 1810 5B

**RECH, W.**  
Plankton and Materials Budget of the Mosel at the Enkirch Storage Basin 1981 (Plankton und Stoffhaushalt der Mosel bei der Stauhaltung Enkirch 1981), W85-05739 1810 2H

**RECHITSKIL, V. I.**  
Method of Calculating the Stability of Rock Slopes of Hydraulic Structures, W85-00430 1801 8E

Use of the Probabilistic Method of Calculating Stability When Designing Rock Slopes, W85-00468 1801 8E

**RECKHOW, K. H.**  
Predicting Variability in a Lake Ontario Phosphorous Model, W85-01758 1804 2H

**RECKNAGEL, F.**  
Problems of Application of the Ecological Model *SMALO* to Lakes and Reservoirs Having Various Trophic States, W85-01113 1802 2H

**RECCZYNSKA-DUTKA, M.**  
Snow Pollution and its Effect on Heavy Metals Load of the Kozlowna Gora Reservoir as Compared to Rain and River Water, W85-04611 1809 5B

Stream Ecosystems in Mountain Grassland (West Carpathians). 4. Heavy Metals, W85-02515 1805 5B

**REDDERING, J. S. V.**  
Management Proposals to Counter Undesirable Sediment Accumulation in the Keurbooms Estuary, W85-01180 1803 4D

**REDDY, K. R.**  
Growth Characteristics of Aquatic Macrophytes Cultured in Nutrient-Enriched Water: II. Azolla, Duckweed, and Salvinia, W85-07144 1812 5D

Nitrogen and Phosphorus Interchange Between Sediments and Overlying Water of a Wastewater Retention Pond, W85-00410 1801 5D

Simulation of Nitrogen Dynamics in Flooded Soils, W85-03092 1806 2K

Soluble Phosphorus Release from Organic Soils, W85-06635 1812 5B

**REDDY, M. M.**  
Variation in pH During Summer Storms near the Continental Divide in Central Colorado, U.S.A., W85-05766 1810 2K

**REDDY, M. R.**  
Effect of Domestic Effluents on Groundwater Quality: A Case Study, W85-04361 1808 5B

**REDDY, S. J.**  
Agroclimatic Classification of the Semi-Arid Tropics III. Characteristics of Variables Relevant to Crop Product Potential, W85-06190 1812 2I

**REDFIELD, G. W.**  
Effects of Urban Stormwater Runoff on Reservoir Phytoplankton, W85-05633 1810 5C

**REDINGER, G. J.**  
Infiltration Rate of Slot Mulches: Measurement and Numerical Simulation, W85-02868 1806 2G

**REEBURGH, W. S.**  
Biochemistry of Acetate in Anoxic Sediments of Skan Bay, Alaska, W85-03207 1806 2L

**REECE, D. A.**  
Sedimentation Success from Modified Jar Tests, W85-01910 1804 5F

**REECE, R. S.**  
Steel Welding Wire Manufacturer Meets Stringent Effluent and Sludge Disposal Criteria, W85-05233 1810 5D

**REED, F. C.**  
Acid Precipitation and Scientific Uncertainty Problems in Probability, W85-01665 1804 5C

**REED, G. D.**  
Sedimentation Success from Modified Jar Tests, W85-01910 1804 5F

**REED, M.**  
Oil Spill Fishery Impact Assessment Model: Sensitivity to Spill Location and Timing, W85-05688 1810 5C

**REED, P. C.**  
Assessment of Potential Agricultural and Industrial Uses of a Lime Water-Softening Waste Slurry, W85-05385 1810 5G

**REED, R. B.**  
Nickel Removal from a Synthetic Nickel-Plating Wastewater Using Sulfide and Carbonate for Precipitation and Coprecipitation, W85-03300 1807 5D

**REES, J.**  
Lead in Umbilical Blood, Indoor Air, Tap Water, and Gasoline in Boston, W85-03339 1807 5C

## AUTHOR INDEX

REES, R. L. G.

**REES, R. L. G.**  
Nutrient Removal Trials and Bioassay Evaluation at Budds Farm Sewage-Treatment Works, Havant, W85-04526 1809 5D

**REEVE, C. E.**  
Modeling Approach to Estimating Aquifer Recharge on a Regional Scale, W85-02830 1806 2F

**REEVES, M. J.**  
MINES: A Model to Forecast Mine Wastewater Quality, W85-01750 1804 5B

**REEVES, W. E.**  
Conveyance Characteristics of the Nueces River, Cotulla to Simmons, Texas, W85-00033 1801 4A

**REGAMEY, J. M.**  
Reservoir Storage Equation Experimentally Verified, W85-04416 1809 2E

**REGENS, J. L.**  
Acid Deposition Control, A Benefit-Cost Analysis: Its Prospects and Limits, W85-04798 1809 6B

**REGES, H.**  
Pumped Storage for the German Railway, W85-02675 1805 8A

**REGINATO, R. J.**  
Calibration of Soil Surface Neutron Moisture Meter, W85-03096 1806 2G  
Evaluation of Canopy Temperature-Evapotranspiration Models over Various Crops, W85-06196 1812 2D  
Stability of Non-Water-Stressed Baselines, W85-06198 1812 2D

**REGIS, M.-B.**  
Impact of a Massive Domestic Pollution on the Biology and Morphometry of the Echinoid *Paracentrotus lividus*: Preliminary Data (Impact de la pollution domestique sur la biologie et la morphometrie de l'Echinoide *Paracentrotus lividus* (Lamarck). Donnees preliminaires), W85-05723 1810 5C

**REGOVOS, J.**  
Modular Equipment for the Automatic Control of Small Hydro Plants, W85-02679 1805 8A

**REHFELDT, K. R.**  
Evaluation of Closed-Form Analytical Models to Calculate Conductivity in a Fine Sand, W85-05179 1810 2G

**REIBER, S.**  
Biologically Enhanced Oxygen Transfer in a Fixed-Film System, W85-07042 1812 5D

**REICH, P. B.**  
Effects of Low Concentrations of O<sub>3</sub>, Leaf Age and Water Stress on Leaf Diffusive Conductance and Water Use Efficiency in Soybean, W85-06105 1811 2I

**REICH, R. A.**  
Organics, Plastics, and Synthetics Industry Discharge: Performance and Regulations, W85-05769 1810 6E

**REICHARD, E. G.**  
Engineering Economic Analysis of a Program for Artificial Groundwater Recharge, W85-05001 1810 4B

**REICHERT, W. L.**  
Exposure of Two Species of Deposit-Feeding Amphipods to Sediment-Associated (3H)-Benz(a)pyrene: Uptake, Metabolism and Covalent Binding to Tissue Macromolecules, W85-06383 1812 5C

**REICHMAN, G. A.**  
Water-Table Contribution to Alfalfa Evapotranspiration and Yields in Sandy Soils, W85-04727 1809 2D

**REICOSKY, D. C.**  
Dynamics of Water in *Zea mays* L.: Sensitivity Analysis of TROIKA, W85-03372 1807 2I

**REID, D. F.**  
Radium Variability Produced by Shelf-water Transport and Mixing in the Western Gulf of Mexico, W85-04712 1809 2K

**REID, I.**  
Electromagnetic Device for Automatic Detection of Bedload Motion and Its Field Applications, W85-01276 1803 2J

**REID, J. B.**  
Nature of the Tile-Drain Outfall Hydrograph in Heavy Clay Soils, W85-01614 1803 2G  
Separation Zone at Open-Channel Junctions, W85-03778 1808 8B  
Wetting and Drying of a Grazed and Ungrazed Clay Soil, W85-04250 1808 2G

**REID, J. W.**  
Relations Between Available and Extractable Soil Water and Evapotranspiration from a Bean Crop, W85-06279 1812 2G

**REID, J. W.**  
Contribution of Two Aquatic Macrophytes to the Nutrient Budget of Lobo Reservoir, Sao Paulo, Brazil, W85-05649 1810 2H

**REIDL, L. M.**  
Sediment Production From Forest Road Surfaces, W85-03576 1807 2J

**REILAND, S.**  
Tri- and Tetra-Chloroveratrole, Metabolites Produced by Bacterial O-Methylation of Tri- and Tetra-Chloroguaiacol: An Assessment of Their Bioconcentration Potential and Their Effects on Fish Reproduction, W85-03310 1807 5C

**REILLY, R. J.**  
Vascular Riffle Flora of Appalachian Streams: The Ecology and Effects of Acid Mine Drainage on *Justicia americana* (L.) Vahl, W85-04884 1809 5C

**REILLY, W. M.**  
Munitions Manufacturing Wastewater Treatment: A Grass-Roots Facility Case History, W85-05248 1810 5D

**REINERS, W. A.**  
Effects of Canopy Components on Throughfall Chemistry: An Experimental Analysis, W85-02560 1805 2K

**REINERT, K. H.**  
Temperature and Evapotranspiration Gradients of the White Mountains, New Hampshire, U.S.A., W85-00111 1801 2D

**REINERT, K. H.**  
Influence of Sediment Types on the Sorption of Endothall, W85-00133 1801 4A

**REINHARD, M.**  
Occurrence and Distribution of Organic Chemicals in Two Landfill Leachate Plumes, W85-03667 1807 5B  
Organic Contaminant Behavior During Rapid Infiltration of Secondary Wastewater at the Phoenix 23rd Avenue Project, W85-05335 1810 5D

**REINIKAINEN, A.**  
Ecological Variation of Mire Site Types in the Small Kettle-Hole Mire Heinisuo, Southern Finland, W85-02485 1805 2L

**REINS, A.**  
Macrophytes in the Loosdrecht Lakes: A Story of Their Decline in the Course of Eutrophication, W85-04549 1809 5C

**REIS, C. M.**  
Precipitation in the Central Amazon Basin: The Isotopic Composition of Rain and Atmospheric Moisture at Belem and Manaus, W85-02816 1806 2B

**REIS, R. I.**  
Regulation of Bulk Hazardous Cargoes on the Great Lakes, W85-00940 1802 5G

**REISENAUER, A. E.**  
Sensitivity Analysis Applied to Unsaturated Flow Modeling of a Retorted Oil Shale Pile, W85-05181 1810 2F

**REISWIG, H. M.**  
Distribution and Flux of Particulate Matter in the Bideford River Estuary, Prince Edward Island, Canada, W85-00912 1802 2L

**REITTER, P. F.**  
Influence of Anisotropy on Relations Between Electrical and Hydraulic Properties of Aquifers, W85-03756 1807 2F

**REKUNEN, S.**  
Taman Anaerobic Process - For Wastewater from Mechanical Pulp and Paper Production, W85-07010 1812 5D

**REMACHE, J.**  
Cadmium Toxicity and Accumulation by *Tetrahymena pyriformis* in Contaminated River Waters, W85-02748 1806 5C

**REMBERGER, M.**  
Tri- and Tetra-Chloroveratrole, Metabolites Produced by Bacterial O-Methylation of Tri- and Tetra-Chloroguaiacol: An Assessment of Their Bioconcentration Potential and Their Effects on Fish Reproduction, W85-03310 1807 5C

**REMENAPP, H. E.**  
Seasonal and Annual Variation in the Discharge of Metallic Cations from Rhode River Watersheds, W85-05362 1810 5B

**REMER, J. S.**  
Nonequilibrium and Equilibrium Sorption with a Linear Sorption Isotherm During Mass Transport through an Infinite Porous Medium: Some Analytical Solutions, W85-02488 1805 2F

**REMERS, H. E.**  
Preliminary Study of Solar Ponds for Salinity Control in the Colorado River Basin, W85-05306 1810 3C

**REMSEN, C. C.**  
Influence of the Surface Microlayer on Nutrients, Chlorophyll and Algal Diversity of a Small Eutrophic Bog Pond, W85-05738 1810 2H

## AUTHOR INDEX

**RHODES, J. J.**

Retrieval of Material from the Surface Micro-layer with Screen and Plate Samplers and its Implications for Partitioning of Material within the Microlayer, W85-04895 1809 5A

Stratification of Microorganisms and Nutrients in the Surface Microlayer of Small Freshwater Ponds, W85-00407 1801 2H

**RENARD, K. G.**

Fate and Effectiveness of Tebuthiuron Applied to a Rangeland Watershed, W85-01285 1803 5B

Flood Frequency Characteristics of Some Arizona Watersheds, W85-03142 1806 2E

**RENNBERG, I.**

Annual Sediment Accumulation and Land Use History; Investigations of Varved Lake Sediments, W85-05627 1810 2J

**RENNBERG, L.**

Use of the Bivalve *Mytilus edulis* as a Test Organism for Bioconcentration Studies. 1. Designing a Continuous-Flow System and Its Application to Some Organochlorine Compounds, W85-06743 1812 5C

**RENEAU, R. B. JR.**

Effects of Anaerobically Digested Poultry Manure on Soil Phosphorus Adsorption and Extractability, W85-06622 1812 5D

**RENNER, J.**

Reservoir Murg in Gaggenau (Murgstau Gaggenau), W85-03268 1807 8A

**RENWICK, W. H.**

Sources, Storages, and Sinks of Fine-Grained Sediments in a Fluvial-Estuarian System, W85-03677 1807 2J

**RENZONI, A.**

Trace-metals and Chlorinated Hydrocarbons in Birds' Eggs from the Delta of the Danube, W85-07146 1812 5B

**REPLOGLE, J. A.**

Portable RBC Flumes for Furrows and Earthen Channels, W85-03393 1807 7B

Rectangular Measuring Flumes for Lined and Earthen Channels, W85-01506 1803 8A

**RESCH, G.**

Anions in Water of Energy Generating Plants. Importance and Analysis (Review) (Anionen in Wassern von Energieerzeugungsanlagen - Bedeutung und Analyse (Übersichtsbericht)), W85-06754 1812 5A

**RESH, V. H.**

Sequential Sampling: A Cost-Effective Approach for Monitoring Benthic Macroinvertebrates in Environmental Impact Assessments, W85-00975 1802 6G

**REST, G. B.**

Anaerobic Treatment of Tannery Waste, W85-05554 1810 5D

**RESTITUITO, F.**

Contribution to a Study of a Hydrogen Sulfide Layer in a Meromictic Lake (Lake Pavin, France) (Contribution à l'étude d'une Couche à Hydrogène Sulfure en lac Meromictique (Lac Pavin, France)), W85-01020 1802 2H

Contribution to a Study of the Sediments of a Oligomesotrophic Lake of Volcanic Origin (Lake Pavin, France) (Contribution à l'étude du sediment d'un lac oligomesotrophe d'origine volcanique (Lac Pavin, France)), W85-01019 1802 2H

**RETEYUM, K. F.**

Regionalization of Continents According to the Character of the Annual Distribution of River Runoff, W85-04091 1808 2E

**RETIERE, C.**

Tidal Power: Repercussions on the Aquatic Environment (Energie Maremotrice: Aspects liés à l'Environnement Aquatique), W85-05545 1810 6G

**RETTIG, S. L.**

Geochemistry of Great Salt Lake, Utah I: Hydrochemistry Since 1850, W85-05761 1810 2K

**REUSS, J. O.**

Economics of Changes in Irrigation Management in Pakistan: An Integrative Modeling Approach, W85-03029 1806 3F

Effect of Soil Processes on the Acidification of Water by Acid Deposition, W85-06614 1812 5B

**REVEAUCIER, R.**

Littoral Phytoplankton Productivity and Biomass as Indicators of Differential Nutrient Loading of Lake Tahoe, W85-02651 1805 5C

Transformations of Nitrogen Following an Epilimnetic Nitrogen Fertilization in Castle Lake, CA: 1. Epilimnetic Periphyton Responses, W85-06397 1812 2H

Vertical Profiles of Primary Productivity, Biomass and Physico-Chemical Properties in Meromictic Big Soda Lake, Nevada, W85-01468 1803 2H

**REVFEIM, K. J. A.**

Initial Model of the Relationship Between Rainfall Events and Daily Rainfalls, W85-04283 1808 2B

**REVITT, D. M.**

Hydrocarbon Accumulation in Freshwater Sediments of an Urban Catchment, W85-02078 1804 5B

**REVSBECH, N. P.**

Microelectrode Studies of Interstitial Water Chemistry and Photosynthetic Activity in a Hot Spring Microbial Mat, W85-02593 1805 2K

**REYANUD, L.**

Measurements of Glacial Fluctuations in the French Alps; Collection of Data and Results (Mesures des Fluctuations Glaciaires dans les Alpes Françaises; Collecte des Données et Résultats), W85-05021 1810 2C

**REYNOLDS, B.**

Assessment of the Spatial Variation in the Chemical Composition of Bulk Precipitation within an Upland Catchment, W85-01348 1803 2K

Factors Influencing Bulk Precipitation Chemistry at an Upland Site in Mid-Wales, W85-00509 1802 2K

**REYNOLDS, C. S.**

Algal Control of Lake Geochemistry; Redox Cycles in Rostherne Mere, U.K., W85-04982 1810 2H

Sinking Losses of Phytoplankton in Closed Limnetic Systems, W85-02215 1805 2H

**REYNOLDS, D. M.**

Trees Scars to Determine the Frequency and Stage of High Magnitude River Ice Drives and Jams, Red Deer, Alberta, W85-04589 1809 7B

**REYNOLDS, D. N.**

Influence of Water Table and Atmospheric CO<sub>2</sub> Concentration on the Carbon Balance of Arctic Tundra, W85-02857 1806 2G

**REYNOLDS, G. I.**

Managing a Public Involvement Program, W85-01574 1803 6A

**REYNOLDS, J. H.**

Design Manual, Municipal Wastewater Stabilization Ponds, W85-05133 1810 5D

**REYNOLDS, L. M.**

Organochlorine Residues in Common Terns and Associated Estuarine Organisms, Massachusetts, USA, 1971-81, W85-04861 1809 5B

**REYNOLDS, L. R.**

Trade Effluent Control - An Industrial Viewpoint, W85-03018 1806 5D

**REYNOLDS, W. D.**

Constant Head Well Permeameter: Effect of Unsaturated Flow, W85-06208 1812 2G

Development and Validation of a Numerical Model Simulating Evaporation from Short Cores, W85-02866 1806 2G

**REYNOLDSON, T. B. JR.**

Spatial Heterogeneity in Whole Lake Sediments - Towards a Loading Estimate, W85-02073 1804 2H

**RHEAD, M. M.**

Initial Studies on the Use of High-Performance Liquid Chromatography for the Rapid Assessment of Sewage Treatment Efficiency, W85-01721 1804 5D

Physico-Chemical Speciation of Polycyclic Aromatic Hydrocarbons (PAH) in Aquatic Systems, W85-03282 1807 5B

**RHOADES, J. D.**

Minimizing Salt in Drain Water by Irrigation Management - Arizona Field Studies with Citrus, W85-03481 1807 3F

Minimizing Salt in Drain Water by Irrigation Management - Leaching Studies with Alfalfa, W85-03483 1807 3F

Response of Cotton Water Stress Indicators to Soil Salinity, W85-05164 1810 2I

Time-Domain Reflectometry: Simultaneous Measurement of Soil Water Content and Electrical Conductivity with a Single Probe, W85-00220 1801 7B

Use of Saline Water for Irrigation, W85-03658 1807 3C

**RHODES, J. J.**

Techniques for Evaluating Spatial and Temporal Variability in Surface Water Quality as Related

## AUTHOR INDEX

**RHODES, J. J.**

**RHODES, R. N.**  
North Minima Treatment Works' Refurbishment and Automation, W85-06573 1812 5F

**RHODES, S. L.**  
Acid Rain and Drinking Water Degradation, W85-06286 1812 5B

Climate and the Colorado River: The Limits of Management, W85-02799 1806 4A

Superfunding Acid Rain Controls, Who Will Bear the Costs, W85-02549 1805 5G

**RHONES, L.**  
Changes in the Naiad Fauna of the Cumberland River below Lake Cumberland in Central Kentucky, W85-01921 1804 6G

**RIBAUDET, M. O.**  
Importance of Sample Discrimination in Using the Travel Cost Method to Estimate the Benefits of Improved Water Quality, W85-04753 1809 6B

**RIBBLETT, G. C.**  
Laboratory Investigation of Leachate Chemistry from Six Appalachian Forest Floor Types Subjected to Simulated Acid Rain, W85-06721 1812 2K

**RIBEIRO, C. A. G.**  
Vertical Distribution of Al, Cu, Fe and Zn in the Soil Salt Marshes of the Sado Estuary, Portugal, W85-05032 1810 5B

**RIBEIRO, M. N. G.**  
Precipitation in the Central Amazon Basin: The Isotopic Composition of Rain and Atmospheric Moisture at Belem and Manaus, W85-02816 1806 2B

**RIBEYRE, F.**  
Bioaccumulation and Tissue Distribution of Mercury - HgCl<sub>2</sub> and CH<sub>3</sub>HgCl - in Salmo gairdneri After Direct Contamination (Bioaccumulation et Repartition Tissulaire Du Mercure - HgCl<sub>2</sub> et CH<sub>3</sub>HgCl - Chez Salmo gairdneri Apres Contamination Par Voie Directe), W85-02925 1806 5C

**RIBICK, M. A.**  
National Pesticides Monitoring Program: Residues of Organochlorine Chemicals in Freshwater Fish, 1980-1981, W85-05111 1810 5B

**RICCI, E. D.**  
Variation in Polychlorinated Biphenyl Levels in Common Carp from a Primarily Agricultural Drainage, W85-04065 1808 5B

**RICE, D. L.**  
Silver Complexation in River Waters of Central New York, W85-07120 1812 5A

Simple Mass Transport Model for Metal Uptake by Marine Macroalgae Growing at Different Rates, W85-03831 1808 5B

**RICE, D. W. JR.**  
Toxicity of Copper to the Adult and Early Life Stages of the Freshwater Clam, Corbicula manilensis, W85-02193 1805 5C

**RICE, R. C.**  
Hydraulic Properties of Stony Vadose Zones, W85-03149 1806 2F

**RICE, R. M.**  
Erosion on Logging Roads in Northwestern California: How Much Is Avoidable, W85-01164 1803 2J

**RICE, T.**  
Nontributary, Nondesignated Ground Water: The Huston Decision, W85-06367 1812 6E

**RICH, L. G.**  
Benthal Stabilization of Organic Carbon and Nitrogen: The Development of Interstitial Profiles, W85-03873 1808 5D

**RICHARD, D. I.**  
Phytoplankton Responses to Reduction and Elimination of Submerged Vegetation by Herbicides and Grass Carp in Four Florida Lakes, W85-04857 1809 5G

**RICHARD-HAGGARD, K.**  
Water Quality Modelling and Water Resources Planning, W85-01426 1803 6A

**RICHARD, J. J.**  
Degradation of Pesticides in Controlled Water-Soil Systems, W85-06780 1812 5E

Variation in Polychlorinated Biphenyl Levels in Common Carp from a Primarily Agricultural Drainage, W85-04065 1808 5B

**RICHARDOT-COULET, M.**  
Macroinvertebrates as 'Describers' of Morphological and Hydrological Types of Aquatic Ecosystems Abandoned by the Rhone River, W85-04722 1809 2H

**RICHARDS, F.**  
Water Available for Runoff for 1 to 15 Days Duration and Return Periods of 2 to 100 Years for Selected Agricultural Regions in the Northwest United States, W85-05363 1810 2B

**RICHARDS, G. N.**  
Residues Related to Agricultural Chemicals in the Groundwaters of the Burdekin River Delta, North Queensland, W85-04039 1808 5B

**RICHARDS, J. T.**  
Formation of Stable Organic Chloramines During the Aqueous Chlorination of Cytosine and 5-Methylcytosine, W85-01726 1804 5F

Kinetics and Products of the Chlorination of Caffeine in Aqueous Solution, W85-01727 1804 5B

**RICHARDS, K. A.**  
Soil Physical Characteristics of Reduced Tillage in a Wheat-Fallow System, W85-06078 1811 2G

**RICHARDS, R. C.**  
Mixing and the Dynamics of the Deep Chlorophyll Maximum in Lake Tahoe, W85-02223 1805 2H

**RICHARDS, W. G.**  
Calculating Effectiveness of Water Conservation Measures, W85-06021 1811 6F

Estimation of Costs for Small Water Systems, W85-06950 1812 6C

How Much Water Can You Save With Conservation Measures, W85-05483 1810 3D

**RICHARDS, W. N.**  
Lead Hazard Controlled in Scottish Water Systems, W85-02402 1805 5B

**Lead in Water, Infant Diet and Blood: the Glasgow Duplicate Diet Study,** W85-06548 1812 5C

**RICHARDSON, C. W.**  
WGEN: A Model for Generating Daily Weather Variables, W85-05129 1810 7C

**RICHARDSON, E. V.**  
Optimal Drain Design for Arid, Irrigated Areas, W85-03403 1807 3F

Riprap Stability Analysis, W85-06114 1811 2J

Use of Spurs and Guidebanks for Highway Crossings, W85-06111 1811 8A

**RICHARDSON, J. L.**  
Percolation Tests, Soil Texture, and Saturated Hydraulic Conductivity in Lacustrine Soils in North Dakota, W85-06717 1812 2G

**RICHARDSON, W. L.**  
Simulation Modeling as a Means of Studying Large Aquatic Ecosystems, W85-02884 1806 2A

**RICHERSON, P. J.**  
Diurnal Cycle of Stratification in Lake Titicaca: Eddy Diffusion, W85-04567 1809 2H

Mixing and the Dynamics of the Deep Chlorophyll Maximum in Lake Tahoe, W85-02223 1805 2H

Nitrate Cycling in Lake Titicaca (Peru-Bolivia): The Effects of High-Altitude and Tropicality, W85-04896 1809 2H

**RICHIE, E. B.**  
Calculation of Internodal Conductances for Unsaturated Flow Simulations: A Comparison, W85-02872 1806 2G

**RICHMAN, S.**  
Phytoplankton Standing Stock, Size Distribution, Species Composition and Productivity Along a Trophic Gradient in Green Bay, Lake Michigan, W85-02640 1805 2H

**RICHMOND, B. M.**  
Sedimentology and Evolution of Ohiwa Harbour, a Barrier-Impounded Estuarine Lagoon in Bay of Plenty, W85-06798 1812 2L

**RICOCHOUX, P.**  
Macroinvertebrates as 'Describers' of Morphological and Hydrological Types of Aquatic Ecosystems Abandoned by the Rhone River, W85-04722 1809 2H

**RICHTER, D. D.**  
Effects of Municipal Sewage Sludge-Cake on Nitrogen and Phosphorus Distributions in a Pine Plantation, W85-05387 1810 5E

**RICHTER, J.**  
Leaching of Soluble Salt During Infiltration and Redistribution, W85-05163 1810 2G

**RICHTER, W. M.**  
Oxygen Budget of the Waters of the Feldberger Lakeplain Based on Summer Depth Profiles for 1924 and 1962, Part 3: Scharteisen, Wasch-See, Dolgener See (Zum Sauerstoffhaushalt der Gewasser der Feldberger Seenplatte an Hand Ausgewählter Sommerlicher Tiefenprofile seit 1924 und 1962, Teil 3: Scharteisen, Wasch-See, Dolgener See), W85-06274 1812 5C

AUTHOR INDEX

RITCHIE, A. JR.

Oxygen Concentration of Waters of the Feldberger Lake District on the Basis of Selected Summer Depth Profiles from 1924 through 1962. Part 2: Zansen, Wootzen, Carwitzer Lake, Dreetz and Kruselin (Zum Sauerstoffhaushalt der Gewasser der Feldberger Seenplatte an Hand ausgewählter sommerlicher Tiefenprofile seit 1924 bzw. 1962. Teil 2: Zansen, Wootzen, Carwitzer See, Dreetz und Kruselin), W85-06652 1812 2H

RICKABAUGH, J. Priority Pollutant Removal by Activated Sludge Treatment: Monitoring Phenols from Dye and Pigment Waste, W85-05265 1810 5D

RICKARD, W. H. Mineral Content of Canada Goose Eggs and Implications for Environmental Surveillance Along the Columbia River, W85-06873 1812 5A

RICKERT, B. Differential Pulse Stripping-Voltammetry for Routine Heavy-Metal Analysis of Drinking Water (Differential Pulseinversvoltammetrie für die Schwermetallanalytik von Trinkwasser), W85-03719 1807 5A

RICKSON, R. E. Comparative Bases of Industry Pollution Abatement and Commercial Innovation: Implications for Water Resources Management, W85-06243 1812 5G

RIDGWAY, H. F. Biofilm Fouling of RO Membranes - Its Nature and Effect on Treatment of Water for Reuse, W85-00712 1802 5D

Biological Fouling of Reverse Osmosis Membranes, W85-01977 1804 5D

RIDKER, R. G. Losses from Effluent Taxes and Quotas under Uncertainty, W85-07089 1812 5G

RIDLEY, K. J. Breakthrough of Brine through Compacted Fine Grained Soils, W85-05571 1810 5G

RIBBSAME, W. E. Identification of 10- to 20- Year Temperature and Precipitation Fluctuations in the Contiguous United States, W85-03847 1808 2B

RIEDEL, G. F. Influence of Salinity and Sulfate on the Toxicity of Chromium(VI) to the Estuarine Diatom *Thalassiosira pseudonana*, W85-04319 1808 5C

Trace Metals in the Columbia River Estuary Following the 18 May 1980 Eruption of Mount St. Helens, W85-05056 1810 5B

RIEGER, A. W. Gas Chromatographic Determination of Picloram in Fish, W85-04433 1809 5A

RIEGER, E. Effects of Long-Term Artificial Flooding on a Northern Bottomland Hardwood Forest Community, W85-00291 1801 6G

RIEMANN, B. Diel Variation in Concentration, Assimilation and Respiration of Dissolved Free Amino Acids in Relation to Planktonic Primary and Secondary Production in Two Eutrophic Lakes, W85-00994 1802 2H

RIEMER, R. Land Application of Municipal Wastewater Treatment Plant Sludge, Indianapolis, Indiana, W85-05390 1810 5E

RIGG, E. Dynamics of Iron and Manganese in a Seasonally Anoxic Lake; Direct Measurement of Fluxes Using Sediment Traps, W85-01597 1803 2H

RIGLER, F. H. Dependence of Hypolimnetic Oxygen Consumption on Ambient Oxygen Concentration: Fact or Artifact, W85-02149 1804 2H

Effects of Phosphorus Fertilization on Phytoplankton Biomass and Phosphorus Retention in Subarctic Quebec Lakes, W85-02635 1805 2H

Long Distance Transport of Anthropogenic Lead as Measured by Lake Sediments, W85-05691 1810 5B

RISGARD, H. U. Mercury Levels in Fish, Invertebrates and Sediment in a Recently Recorded Polluted Area (Nissum Broad, Western Limfjord, Denmark), W85-00801 1802 5B

RILEY, E. T. Role of Internal Phosphorus Loading in Two Shallow, Productive Lakes in Alberta, Canada, W85-01488 1803 2H

RILEY, R. G. Microbial Transformation of Alkylpyridines in Groundwater, W85-06374 1812 5C

RIMAWI, O. Isotopic Analyses and Hydrochemistry of the Thermal Springs along the Eastern Side of the Jordan Dead Sea - Wadi Araba Rift Valley, W85-02462 1805 2F

RINALDI, S. Min-Max Approach to Reservoir Management, W85-03552 1807 4A

RINALDO, A. Capacity and Type of Units for Small Run-of-River Plants, W85-03327 1807 8A

Conceptual Model of Unit-Mass Response Function for Nonpoint Source Pollutant Runoff, W85-05872 1811 5B

RINELLA, J. F. Method for Relating Suspended-Chemical Concentrations to Suspended-Sediment Particle-Size Classes in Storm-Water Runoff, W85-00614 1802 5B

RINEY, T. D. Interpretation of Downhole Data and Development of a Conceptual Model for the Redondo Creek Area of the Baca Geothermal Field, W85-03164 1806 6B

Pressure Buildup Analysis for Two-Phase Geothermal Wells: Application to the Baca Geothermal Field, W85-05800 1810 2F

RING, S. J. Identification of Asbestos and Glass Fibers in Municipal Sewage Sludges, W85-05008 1810 5A

RINGHAND, H. P. Gas Chromatography/Mass Spectroscopy Analysis of Mutagenic Extracts of Aqueous Chlorinated Humic Acid. A Comparison of the Byproducts to Drinking Water Contaminants, W85-02345 1805 5B

Identification and Measurement of Components in Gasoline, Kerosene, and No. 2 Fuel Oil that Partition into the Aqueous Phase after Mixing, W85-02199 1805 5B

RINGSTAD, C. A. Electrical Resistivity Studies to Delimit Zones of Acceptable Ground Water Quality, W85-03176 1806 2B

RINKEN, M. Quantification of Volatile Sulfur Compounds Related to the Corrosion of Concrete Sewers, W85-01128 1803 5C

RINTALA, J. Anaerobic Reactors for Treatment of Synthetic Wastewater Simulating the Organic Composition of Sulphite Evaporator Condensate, W85-03682 1807 5D

RINTALA, J. A. Influence of Sulfur Compounds on Biogas Production from Forest Industry Wastewater, W85-07021 1812 5D

RIOS, A. Spectrophotometric Determination of Cyanide by Unsigned Flow Methods, W85-03408 1807 5A

RIOU, C. Experimental Study of Potential Evapotranspiration (PET) in Central Africa, W85-01613 1803 2D

RIPPEN, G. Environmental Model Segment Approach for Estimating Potential Environmental Concentrations, I. The Model, W85-02699 1806 5B

Environmental Model Segment Approach for Estimating Potential Environmental Concentrations, II. Application of the Model to p-Dichlorobenzene and Trichloroethene, W85-02700 1806 5B

RIPPEY, B. Lake Acidification in Galloway: A Palaeoecological Test of Competing Hypotheses, W85-06013 1811 5B

RATES OF SEDIMENT-WATER EXCHANGE OF OXYGEN AND SEDIMENT BIOTURBATION IN LOUGH NEAGH, NORTHERN IRELAND, W85-02085 1804 2H

Variation of Calcium, Magnesium, Sodium and Potassium Concentration, pH and Conductivity in Lakes in Northern Ireland, W85-02894 1806 2H

RISHEL, G. B. Thermal Alteration of Streams Draining Clear-cut Watersheds: Quantification and Biological Implications, W85-00421 1801 5C

RISLEY, E. M. Desertification in the United States, Status and Issues, W85-05125 1810 2D

RISSLER, P. Recent Investigation Methods for Dam Foundations (Neuere Untersuchungsmethoden für die Grundung von Absperrbauwerken), W85-03259 1807 8E

RITACCO, P. J. Effects of Copper and Cadmium on Growth, Swimming and Predator Avoidance in Eurytemora affinis (Copepoda), W85-01900 1804 5C

RITCHIE, A. JR. Relation of Water Table Depth and Soil Morphology in Two Clay-Rich Soils of Northwestern Ohio, W85-04052 1808 2G

## AUTHOR INDEX

**RITCHIE, D. D.**

**RITCHIE, D. D.**  
Modern Sedimentation at Falls Dam, Upper  
Manuherikia River, Central Otago, New Zealand,  
W85-03488 1807 2J

**RITCHIE, J. C.**  
Comparison of Three Methods for Measuring  
Recent Rates of Sediment Accumulation,  
W85-06244 1812 2J

**RITTENHOUSE, R. C.**  
Meeting the Challenge of Power Plant Water  
Treatment,  
W85-02766 1806 5F

**RITTER, H.**  
Results of Rational Water Use in the District of  
Dresden (Ergebnisse der rationellen Wasserver-  
wendung im Bezirk Dresden),  
W85-03523 1807 3E

**RITTMANN, B. E.**  
Achieving Biologically Stable Drinking Water,  
W85-03624 1807 5F

Nonsteady-State-Biofilm Process for Advanced  
Organics Removal,  
W85-01658 1804 5D

Simultaneous Denitrification with Nitrification  
in Single-Channel Oxidation Ditches,  
W85-07051 1812 5D

**RIVIERE, D.**  
Impact of Domestic Sewage Pollution on Enzy-  
matic Activities of Two Planktonic Copepods  
(*Acartia clausi* and *Centropages typicus*)  
(Impact d'une Pollution d'Origine Urbaine sur  
les Activites Enzymatiques de deux Copepodes  
Planctoniques (*Acartia Clausi et Centropages ty-  
picus*)),  
W85-01898 1804 5C

**RIZZO, W. J.**  
Aquifer Protection Planning: Groundwater Pro-  
tection in Two Massachusetts Communities,  
W85-05912 1811 5G

**RIZZO, W. J. JR.**  
Aquifer Protection Planning in the North Eastern  
United States,  
W85-01524 1803 5G

**RO.**  
C.-U.  
Long-Term Precipitation Quality and Wet Dep-  
osition Fields in the Sudbury Basin,  
W85-03595 1807 5B

**ROALD, S. O.**  
Distribution and Elimination of Hexachloroben-  
zene, Octachlorostyrene and Decachlorobi-  
phenyl in Rainbow Trout, *Salmo gairdneri*,  
W85-06381 1812 5C

**ROBARTS, R. D.**  
Factors Controlling Primary Production in a  
Hypertrophic Lake (Hartbeespoort Dam, South  
Africa),  
W85-00384 1801 2H

Microcystis aeruginosa and Underwater Light  
Attenuation in a Hypertrophic Lake (Hartbees-  
poort Dam, South Africa),  
W85-03740 1807 2H

Overturn in a Hypertrophic, Warm, Monomictic  
Impoundment (Hartbeespoort Dam, South  
Africa),  
W85-01481 1803 2H

**ROBBINS, C. H.**  
Effects of Urbanization on the Magnitude and  
Frequency of Floods on Small Streams in Ten-  
nessee - Basic Data Report No. 3,  
W85-00619 1802 4C

**ROBBINS, C. W.**  
Fluorite Precipitation in a Calcareous Soil Irri-  
gated with High Fluoride Water,  
W85-02873 1806 2G

**ROBBINS, G. A.**

Determining Dispersion Coefficients and  
Sources of Model-Dependent Scaling,  
W85-04274 1808 2F

Displacement of Connate Water from Aquifers,  
W85-05732 1810 2F

**ROBBINS, J. A.**

137-Cs and 210-Pb Transport and Geochronolo-  
gies in Urbanized Reservoirs with Rapidly In-  
creasing Sedimentation Rates,  
W85-01099 1802 2J

Dual Radiotracer Measurement of Zoobenthos-  
Mediated Solute and Particle Transport in  
Freshwater Sediments,  
W85-02964 1806 2J

Sedimentation and Sediment Accretion in Michi-  
gan Coastal Wetlands (U.S.A.),  
W85-01103 1802 2J

**ROBERGE, J.**

Upper Salmon River Karst, Anticosti Island,  
Quebec, Canada,  
W85-00010 1801 2F

**ROBERSON, B. S.**

Influence of Chlorine on the Susceptibility of  
Striped Bass (*Morone saxatilis*) to *Vibrio anguillarum*,  
W85-03001 1806 5C

**ROBERSON, J. A.**

Mechanics of Mudflows,  
W85-01816 1804 8B

**ROBERSON, P.**

Influence of the Time of Acidification after  
Sample Collection on the Preservation of Drink-  
ing Water for Lead Determination,  
W85-07088 1812 5A

**ROBERSTON, B.**

Vertical Distribution of Zooplankton and Phy-  
sico-Chemical Conditions During a 24-hour  
Period in an Amazon Floodplain Lake - Lago  
Calado, Brazil,  
W85-06449 1812 2H

**ROBERTACCIO, F. L.**

EDS Coal Liquefaction Wastewaters: Zero-Di-  
scharge Treatability Studies,  
W85-05435 1810 5D

**ROBERTS, B. R.**

Salt River Channelization Project: Model Study,  
W85-05783 1810 2J

**ROBERTS, D. A.**

Submersed Macrophyte Communities of Adiron-  
dack Lakes (New York, U.S.A.) of Varying  
Degrees of Acidity,  
W85-06804 1812 2H

**ROBERTS, D. G. M.**

Costs and Benefits of Estuarine and Coastal Pol-  
lution Control,  
W85-01394 1803 6B

**ROBERTS, G.**

Nutrient Inputs and Outputs in a Forested and  
Grassland Catchment at Plynlimon, Mid Wales,  
W85-06278 1812 5B

**ROBERTS, H. M. G.**

Sources of Pollution of the Estuary of the River  
Nervion, Spain - A Case Study,  
W85-01396 1803 5B

**ROBERTS, J. L.**

Landfill Design Protects Sole-Source Aquifer,  
W85-00624 1802 5E

Water Main Project Serves Expanding Hi-tech  
Area,  
W85-00552 1802 8A

**ROBERTS, K. L.**

Color Removal from Sulfite Wastes with Cati-  
onic Surfactants,  
W85-05404 1810 5D

**ROBERTS, M. H. JR.**

Acute Toxicity of Kepone to Selected Freshwa-  
ter Fishes,  
W85-01846 1804 5C

Effects of Contaminated Sediments and Sedi-  
ment-Exposed Effluent Water on an Estuarine  
Fish: Acute Toxicity,  
W85-05892 1811 5C

Uptake and Clearance Rates for Kepone in Two  
Marine Fish Species,  
W85-04364 1808 5C

**ROBERTS, N.**

Survival and Viability of Nonculturable *Escherichia coli* and *Vibrio cholerae* in the Estuarine  
and Marine Environment,  
W85-02186 1805 5B

**ROBERTS, P. D.**

Distribution of 137-Cs in Surface Intertidal Sedi-  
ments from the Solway Firth,  
W85-00201 1801 5B

**ROBERTS, P. J.**

Jet Entrainment in Pumped-Storage Reservoirs,  
W85-06921 1812 8B

**ROBERTS, P. J. W.**

Dynamics of Jets in Two-Layer Stratified  
Fluids,  
W85-02450 1805 8B

Model of Dispersion in Coastal Waters,  
W85-04394 1808 5B

**ROBERTS, P. V.**

Advection-Dispersion Interpretation of Tracer  
Observations in an Aquifer,  
W85-00326 1801 4B

Energy Requirements for Air Stripping Trihalo-  
methanes,  
W85-06493 1812 5F

Transport of Organic Contaminants in Ground-  
water,  
W85-06704 1812 5B

**ROBERTS, R. S.**

Information for State Groundwater Quality Pol-  
icymaking,  
W85-06535 1812 6A

Water-Resources Investigations of the U.S. Geo-  
logical Survey in Montana, October 1982  
through September 1983,  
W85-00616 1802 7C

**ROBERTSON, A.**

Present Status of Research on the Zooplankton  
and Zoobenthos of the Great Lakes,  
W85-00922 1802 2H

**ROBERTSON, D. C.**

Testing of the SPUR Hydrology Component on  
Rangeland Watersheds in Southwest Idaho,  
W85-03395 1807 2E

**ROBERTSON, G.**

High Stakes for Reviving Hydroelectric Power,  
W85-06568 1812 6G

**ROBERTSON, J. M.**

Biodegradation of (14C)Phenol in Secondary  
Sewage and Landfill Leachate Measured by  
Double-Vial Radiorespirometry,  
W85-06145 1811 5B

**ROBERTSON, L. A.**

Oil Spill Barriers and Their Use,  
W85-06972 1812 5G

## AUTHOR INDEX

ROELOFS, J. G. M.

**ROBERTSON, M. R.**  
Underwater Experiments on the Effects of Sewage Sludge on a Marine Ecosystem, W85-01628 1803 5C

**ROBERTSON, P. K.**  
Piezometer-Friction Cone Investigation at a Tailings Dam, W85-03428 1807 8A

**ROBERTSON, W. A.**  
Sewage Pump Station Design for Barrow, Alaska, W85-04926 1809 8C

**ROBERTSON, W. M.**  
Copper Recovery from a Brass Bright Dipping Solution, W85-05427 1810 5D

**ROBIN, M. J. L.**  
Diffusion of Nonreactive and Reactive Solutes through Fine-Grained Barrier Materials, W85-03427 1807 5E

Effect of Cation Exchange on Calculated Hydrodynamic Dispersion Coefficients, W85-05183 1810 2G

**ROBINOVE, C. J.**  
Application of Digital Mapping Technology to the Display of Hydrologic Information, a Proof-of-Concept Test in the Fox-Wolf River Basin, Wisconsin, W85-00586 1802 7A

**ROBINS, K.**  
Influence of Organic Shock Loads on the Performance of an Anaerobic Fluidized Bed System, W85-05558 1810 5D

**ROBINS, N. S.**  
Selection of Placement Techniques for Water Borehole Cementing, W85-05815 1810 8F

**ROBINSON, D.**  
Comparative Utility of Microwave and Shortwave Satellite Data for All-Weather Charting of Snow Cover, W85-03492 1807 7B

**ROBINSON, D. A.**  
Exceptional Rainfall Around Lewes and the South Downs, Autumn 1982, W85-00581 1802 2E

**ROBINSON, E. L.**  
Reduction in Toxicity of Organic Priority Pollutants by Pilot-Scale Conventional Wastewater Treatment Process, W85-02201 1805 5D

**ROBINSON, F. E.**  
Management Alternatives: Crop, Water, and Soil, W85-03656 1807 3F

**ROBINSON, G. G. C.**  
Effect of an Aquatic Herbicide on Sediment Nutrient Flux in a Freshwater Marsh, W85-06386 1812 5C

**ROBINSON, H.**  
On-site Treatment of Leachate Using Aerobic Biological Techniques, W85-03769 1808 5D

**ROBINSON, J.**  
Isolation of *Aeromonas hydrophila* from a Metropolitan Water Supply: Seasonal Correlation with Clinical Isolates, W85-02596 1805 5F

Isolation of *Aeromonas* spp. from an Unchlorinated Domestic Water Supply, W85-02597 1805 5F

Treatment of Sewage for Use in Municipal Irrigation in Abu Dhabi, UAE, W85-04464 1809 5D

**ROBINSON, J. W.**  
Synergistic Effects of Acidity and Aluminum on Fish (Golden Shiners) in Louisiana, W85-06599 1812 5C

**ROBINSON, K.**  
New Jersey 1982 State Water Quality Inventory Report, W85-06349 1812 5G

New Jersey 1982 State Water Quality Inventory Report, Appendix--Atlantic Coastal Basin, W85-06351 1812 5G

New Jersey 1982 State Water Quality Inventory Report, Appendix--Delaware River Basin, W85-06350 1812 5G

New Jersey 1982 State Water Quality Inventory Report, Appendix--Northeast New Jersey Waters, W85-06353 1812 5G

New Jersey 1982 State Water Quality Inventory Report, Appendix--Raritan River Basin, W85-06352 1812 5C

New Jersey 1982 State Water Quality Inventory Report, Executive Summary, W85-06348 1812 5G

**ROBINSON, M.**  
Use of Biological Assay Systems to Assess the Relative Carcinogenic Hazards of Disinfection By-Products, W85-01218 1803 5F

**ROBINSON, M. P. JR.**  
Pump Station Design: The Benefits of Computer Modeling, W85-01905 1804 8C

**ROBINSON, M. S.**  
Pilot-Plant Evaluation of a Deep Shaft Linked to Conventional Aeration Without Inter-Stage Settlement to Give a Fully-Nitrified Effluent, W85-04452 1809 5D

**ROBINSON, P. J.**  
Aerobic Treatment in 'Oxitron' Biological Fluidized Bed Plant at Coleshill, W85-04593 1809 5D

**ROBINSON, R.**  
Predicted Effects of Increasing Salinity on the Crustacean Zooplankton Community of Pyramid Lake, Nevada, W85-05754 1810 6G

**ROBINSON, S. W.**  
Hydrogeochemistry of Big Soda Lake, Nevada: An Alkaline Meromictic Desert Lake, W85-00297 1801 2H

**ROBINSON, W. H.**  
Submerged Macrophytes and the Hydraulic Roughness of a Lowland Chalkstream, W85-05675 1810 2I

**ROBSON, C. M.**  
Land Application of Municipal Wastewater Treatment Plant Sludge, Indianapolis, Indiana, W85-05390 1810 5E

**ROBSON, J. F.**  
Disposal of Drainage Water from Irrigated Alluvial Plains, W85-01392 1803 5G

**ROCH, M.**  
Effects of Heavy Metal Contamination of the Aquatic Biota of Buttle Lake and the Campbell River Drainage (Canada), W85-07160 1812 5C

**ROCHESTER, E. W.**  
Constant and Variable Operating-Angle Sprinklers for Traveler Irrigators, W85-03404 1807 3F

**ROCK, C. A.**  
Use of Peat for On-Site Wastewater Treatment: I. Laboratory Evaluation, W85-03853 1808 5D

Use of Peat for On-Site Wastewater Treatment: II. Field Studies, W85-03854 1808 5D

**RODDIE, K.**  
Effect of Temperature and Salinity on the Toxicity of Chromium to Three Estuarine Invertebrates (*Corophium volutator*, *Macoma balthica*, *Nereis diversicolor*), W85-04083 1808 5C

**RODE, D. M.**  
Minimizing Wastewater with Bottom Ash Recirculation Systems, W85-01232 1803 5D

**RODGERS, D. W.**  
Ambient pH and Calcium Concentration as Modifiers of Growth and Calcium Dynamics of Brook Trout, *Salvelinus fontinalis*, W85-03828 1808 5C

**RODGERS, J. A.**  
Comparison of Rainfall Regimes at Six Sites in Northern Syria, W85-06194 1812 2B

**RODGERS, J. H. JR.**  
Influence of Sediment Types on the Sorption of Endothall, W85-00133 1801 4A

**RODGERS, P. W.**  
Chloride Loading to Lake Ontario From Onondaga Lake, New York, W85-06865 1812 5B

**RODI, A.**  
Cloud Physics Studies in the SCPP, 1982-1983, W85-04214 1808 3B

**RODIER, L.**  
Fatty Acids in Recent Sediments in the St. Lawrence Estuary, W85-00657 1802 2L

**RODNEY, M. W.**  
How Wind can Affect a Sedimentation Basin, W85-03874 1808 2J

**RODNICK, K.**  
Impact of Small-Scale Dams on Fishes of the Willamette River, Oregon and an Evaluation of Fish Habitat Models, W85-06321 1812 6G

**RODRIGUEZ, G.**  
Ecological Control of Engineering Works in the Maracaibo System, W85-00564 1802 6G

**RODRIGUEZ-ITURBE, I.**  
Scale Considerations in the Modeling of Temporal Rainfall, W85-03559 1807 2B

Spectral Theory of Rainfall Intensity at the Meso-beta Scale, W85-03169 1806 2B

**ROE, K. K.**  
Determination of Barium in Seawater by Direct Injection Graphite Furnace Atomic Absorption Spectrometry, W85-03733 1807 5A

**ROELOFS, J. G. M.**  
Impact of Acidification and Eutrophication on Macrophyte Communities in Soft Waters. II. Experimental Studies, W85-01889 1804 5C

## AUTHOR INDEX

**ROELSTRAETE, K.**

**ROELSTRAETE, K.**  
CG-MS Identification of Odorous Volatiles in  
Wastewater,  
W85-07119 1812 5A

**ROESIJADI, G.**  
Behavior of Trace Metals in *Mytilus edulis*  
During a Reciprocal Transplant Field Experiment,  
W85-02540 1805 5C

**ROGALA, R.**  
Hydrodynamic Pressures Acting Upon Hinged-Arc Gates,  
W85-06036 1811 8C

**ROGALLO, R. S.**  
Numerical Simulation of Turbulent Flows,  
W85-05830 1810 2E

**ROGERS, B. D.**  
Comprehensive Estuarine Nursery Study Completed,  
W85-04392 1808 2L

**ROGERS, J. E.**  
Microbial Transformation of Alkylpyridines in  
Groundwater,  
W85-06374 1812 5C

Preconstruction and Simulated Postconstruction  
Ground-Water Levels at Urban Centers in the  
Red River Navigation Project Area, Louisiana,  
W85-03929 1808 2F

**ROGERS, J. S.**  
Dynamics of Desorption of Mercury Absorbed  
on Poorly Crystalline Oxides of Manganese,  
Iron, Aluminum, and Silicon,  
W85-02627 1805 5B

**ROGERS, J. W.**  
Putting Wastewater to Work,  
W85-06816 1812 3D

**ROGERS, K.**  
Tidal and Seasonal Variations of Sulfate Ion in a  
New Jersey Marsh System,  
W85-01848 1804 5B

**ROGERS, R. J.**  
Heavy Metals in Bottom Sediments from the  
Saw Mill River, West Chester County, New  
York, 1981,  
W85-00206 1801 5B

**ROGERS, S. G.**  
Fish-Nursery Use in Georgia Salt-Marsh Estuaries: The Influence of Springtime Freshwater  
Conditions,  
W85-03246 1807 2L

**ROGERS, S. M.**  
Quality of Ground Water in Southern Buchanan  
County, Virginia,  
W85-00025 1801 2K

**ROGBENBUCK, J. W.**  
Priorities for River Recreation Management in  
the Southern Appalachians,  
W85-00545 1802 6A

**ROGOWSKI, A. S.**  
Mathematical Model of Erosion and Deposition  
on a Watershed,  
W85-03366 1807 2J

Quantitative Evaluation of Sediment Delivery  
Ratios,  
W85-04993 1810 2J

**ROITMAN, L. I.**  
Effect of Organic Substances on the Results of  
Anodic Stripping Voltammetry Detection of  
Metal Ions in Aqueous Media,  
W85-06056 1811 5A

**ROJIANI, K. B.**  
Probabilistic Modeling of Soil Loss from Surface  
Mined Regions,  
W85-06090 1811 2J

**ROLAN, R. G.**  
Preliminary Findings of the Priority Pollutant Monitoring Project of the Nationwide Urban Runoff Program,  
W85-01661 1804 5A

**ROLFE, G. I.**  
Effect of Feedlot Runoff on a Southern Illinois Forested Watershed,  
W85-06617 1812 5D

**ROLLINS, H. C.**  
Water Resources Data, Alabama, Water Year 1982,  
W85-01939 1804 2E

**ROLLINS, M. R.**  
PACT/Wet Air Regeneration of an Organic Chemical Waste,  
W85-05225 1810 5D

**ROLLINS, R. M.**  
Bench-Scale Treatment of Lurgi Gasifier and H-Coal Wastewaters by the PACT System,  
W85-04037 1808 5D

**ROLSTON, D. E.**  
Infiltration from Trickle Irrigation Source,  
W85-03816 1808 2G

Transition Zone Width in Ground Water on Ocean Atolls,  
W85-06041 1811 2F

**ROMAN, C.**  
Limnological Study of Lake Ranco (Chile); Morphometry, Physics, Chemistry and Plankton,  
W85-00108 1801 2H

**ROMAN, C. T.**  
Estimating Water Volume Discharge Through Salt-Marsh Tidal Channels: An Aspect of Material Exchange,  
W85-02998 1806 2L

Salt Marsh Vegetation Change in Response to Tidal Restriction,  
W85-00978 1802 2L

Wetlands of the New Jersey Pinelands: Values, Functions, Impacts and a Proposed Buffer Delimitation Model,  
W85-00813 1802 6G

**ROMAN, F.**  
Some Problems About the Soil Erosion in the Vrancea Subcarpathians (Quelques Problèmes sur L'Erosion des Sols dans les Subcarpates de Vrancea),  
W85-06420 1812 2J

**ROMAN, P.**  
Eco-Engineering Aspects of the Heated Water Disposal in the Black Sea,  
W85-00570 1802 5C

**ROMANENKO, V. D.**  
Hydrobiological Aspects of Ecological Substitution of Interbasin Water Transfers,  
W85-04099 1808 5G

**ROMANENKO, V. I.**  
Xenobiotic Perturbation of Microbial Growth as Measured by CO<sub>2</sub> Uptake, in Aquatic Heterotrophic Bacteria,  
W85-02885 1806 5A

**ROMANOV, I. A.**  
Siromal, a New Effective Soil Structuring and Hydrophobizing Agent,  
W85-06753 1812 3B

**ROMANOV, V. V.**  
Tritium Content in USSR Surface Waters in 1979-1980,  
W85-04108 1808 2K

**ROMEIJN, K.**  
Ecology of Meiofauna in an Organically Polluted Estuarine Mudflat,  
W85-04676 1809 2L

**ROMERO, P.**  
Copilage Survival in Seawater,  
W85-07114 1812 5B

**ROOD, R. J.**  
Report of the Class I and II Cultural Resources Investigations of a Portion of the Cendak Water Project Area, Eastern South Dakota, Volume I. Archaeological Sampling Survey of the East Half of the Proposed Cendak Irrigation System,  
W85-04196 1808 6E

**ROOD, V. O.**  
Report of the Class I and II Cultural Resources Investigations of a Portion of the Cendak Water Project Area, Eastern South Dakota, Volume I. Archaeological Sampling Survey of the East Half of the Proposed Cendak Irrigation System,  
W85-04196 1808 6E

**ROOK, J. J.**  
Consumer Panels Monitor Taste of Water in Rotterdam,  
W85-00708 1802 5F

**ROOKE, J. B.**  
Mollusca of Six Low-Alkalinity Lakes in Ontario,  
W85-00894 1802 2H

**ROOKS, S.**  
Water Treatment for Waterflood Injection,  
W85-00273 1801 5F

**ROOM, P. M.**  
Nitrogen and Establishment of a Beetle for Biological Control of the Floating Weed *Salvinia* in Papua New Guinea,  
W85-06891 1812 4A

**ROOF, R. D.**  
Biomonitoring for Toxics Control in NPDES Permitting,  
W85-07048 1812 5A

Polishing Treatment of Coal Liquefaction Wastewaters,  
W85-04036 1808 5D

**ROOVERS, P.**  
Simulation of Ecological Impacts of the New Outer-Harbour Development in Zeebrugge,  
W85-00565 1802 6G

**RORSLETT, B.**  
Environmental Factors and Aquatic Macrophyte Response in Regulated Lakes - A Statistical Approach,  
W85-02793 1806 2H

**ROSA, F.**  
Sedimentation and Sediment Resuspension in Lake Ontario,  
W85-06861 1812 2J

**ROSBJERG, D.**  
Estimation in Partial Duration Series with Independent and Dependent Peak Values,  
W85-05540 1810 4A

**ROSE, C. W.**  
Interpretation of Leaching under Multiple Fertilizer Applications,  
W85-06564 1812 5B

Modelling Evapotranspiration: An Approach to Heterogeneous Communities,  
W85-06676 1812 2D

Theory of Solute Transport in Soils from the Method of Characteristics,  
W85-05937 1811 2G

**ROSE, F. G.**  
Regional-Scale Estimates of Surface Moisture Availability from GOES Infrared Satellite Measurements,  
W85-06188 1812 7B

## AUTHOR INDEX

ROTHSCHILD, E. R.

<b>ROSE, F. L.</b>						
Diel and Seasonal Carbon Budgets in Two Cold Spring Ecosystems, W85-03122	1806	2H				
Effects of Aquatic Macrophytes on the Stream Microenvironment, W85-01085	1802	2H				
<b>ROSE, J. B.</b>						
Detection of Enteric Viruses in Treated Drinking Water, W85-02136	1804	5F				
<b>ROSE, K. A.</b>						
Simulating the Biological Effects of Toxicants in Aquatic Microcosm Systems, W85-00261	1801	5C				
<b>ROSE, L. M.</b>						
Rapid, Sensitive, Gas Chromatographic Determination of Diethyl Malonate and Diethyl Succinate in Water Facilitated by Sorbent-Tube Preconcentration, W85-00167	1801	5A				
<b>ROSEBOOM, D.</b>						
Inventory of Court Creek Watershed Characteristics That May Relate to Water Quality in the Watershed, W85-06331	1812	2A				
<b>ROSEN, B.</b>						
Anaerobic Treatment of Sulphite Evaporator Condensate in a Pilot Plant of Novel Design, W85-07020	1812	5D				
<b>ROSENAU, R. C.</b>						
Soil Cohesion as Affected by Time and Water Content, W85-02871	1806	2G				
<b>ROSENBERG, A.</b>						
Fate of epsilon-Caprolactam in the Aquatic Environment, W85-01956	1804	5B				
<b>ROSENBERG, D. M.</b>						
Breakdown of Conifer Needle Debris in a New Northern Reservoir, Southern Indian Lake, Manitoba, W85-00639	1802	2H				
Effect of Impoundment and River Diversion on Profundal Macrobenthos of Southern Indian Lake, Manitoba, W85-00638	1802	5G				
Environmental Impact Prediction and Assessment: The Southern Indian Lake Experience, W85-00645	1802	6G				
<b>ROSENBERG, F. A.</b>						
Interactions of Carbaryl with Estuarine Bacterial Communities, W85-03238	1807	5C				
<b>ROSENBERG, M. S.</b>						
Constraints to Managing Interstate Aquifer, W85-01577	1803	2F				
<b>ROSENBLATT, D. H.</b>						
Uptake, Elimination, and Metabolism of 14C-Picric Acid and 14C-Picramic Acid in the American Oyster ( <i>Crassostrea virginica</i> ), W85-03221	1807	5B				
<b>ROSENCRANCE, A. B.</b>						
Microbial Degradation of 2,4,6-Trichloroaniline in Aquatic Samples and Laboratory Enrichment Cultures, W85-02120	1804	5B				
Treatment of Pesticide-Laden Wastewater by Recirculation Through Activated Carbon, W85-06781	1812	5D				
<b>ROSENDALH, P. C.</b>						
Historical Changes in the Conductivity and Ionic Characteristics of the Source Water for the						
<b>SHARK RIVER SLough, EVERGLADES NATIONAL PARK, FLORIDA, U.S.A., W85-01483</b>	1803	6G				
<b>ROSENFELD, C. L.</b>						
Evolution of a Drainage Network: Remote Sensing Analysis of the North Fork Toutle River, Mount St. Helens, Washington, W85-06303	1812	2E				
<b>ROSENLOW, W.</b>						
Application of Tracer Techniques for Determining the Water Balance in Small Catchment Basins; A Research Concept for the Experimental Basins in the Upper Harz Mountains (Anwendung von Tracermethoden zur Erfassung des Wasserumsatzes in kleinen Einzugsgebieten; Ein Forschungsconcept für die Oberharzer Untersuchungsgebiete), W85-04804	1809	2A				
<b>ROSENTHAL, K. D.</b>						
Detoxification/Toxicification of Cadmium in Scorpionfish ( <i>Scorpaena guttata</i> ): Acute Exposure, W85-00878	1802	5A				
<b>ROSENTHAL, M.</b>						
Asbestos in Water Supplies of the United States, W85-02703	1806	5F				
<b>ROSENTHAL, W. D.</b>						
Case Study: Estimating Antecedent Precipitation Index from Heat Capacity Mapping Mission Day Thermal Infrared Data, W85-00689	1802	7B				
<b>ROSENTRETER, R.</b>						
Zonation of Mosses and Lichens Along the Salmon River in Idaho, W85-02330	1805	2E				
<b>ROSENWINKEL, K.-H.</b>						
Use of Biofiltration for Further Wastewater Treatment, W85-03649	1807	5D				
<b>ROSENZWEIG, M.</b>						
Personal Exposure to Volatile Organic Compounds; I. Direct Measurements in Breathing-Zone Air, Drinking Water, Food, and Exhaled Breath, W85-03041	1806	5A				
<b>ROSER, S. D.</b>						
Optimization of Secondary Cooling Water Filtration in a Continuous Stainless Steel Casting Process, W85-05285	1810	5D				
<b>ROSHER, P. H.</b>						
Effects of Water Stress on Internal Water Relations of Apple Leaves, W85-06103	1811	2I				
<b>ROSLYI, E. I.</b>						
Tritium Content in USSR Surface Waters in 1979-1980, W85-04108	1808	2K				
<b>ROSS, B.</b>						
Conceptual Model of Deep Unsaturated Zones with Negligible Recharge, W85-03561	1807	2G				
Weighting of Observed Heads for the Inverse Problem, W85-02689	1805	2F				
<b>ROSS, B. B.</b>						
Finite Element Storm Hydrograph Model, W85-05343	1810	2A				
<b>ROSS, C. A. M.</b>						
Controls on Contaminant Migration at the Villa Farm Lagoons, W85-03770	1808	5D				
<b>ROSS, D. S.</b>						
Disposal of Secondarily Treated Municipal Sewage by Subsurface Irrigation, W85-00060	1801	5E				
<b>ROSS, J. D.</b>						
Borehole Methodology for Hydrogeochemical Investigations in Fractured Rock, W85-02670	1805	7B				
Helium and Neon Isotope Geochemistry of Some Ground Waters from the Canadian Precambrian Shield, W85-03210	1806	2F				
<b>ROSS, S. T.</b>						
Response of Fishes to Periodic Spring Floods in a Southeastern Stream, W85-00130	1801	2H				
<b>ROSSI, F.</b>						
Regional Flood Frequency Estimation Using the Two-Component Extreme Value Distribution, W85-05903	1811	2A				
Two-Component Extreme Value Distribution for Flood Frequency Analysis, W85-02151	1804	2E				
<b>ROSSI, G.</b>						
Interpolation of the Colebrook Formula for Applying the Hardy Cross Method to Water Distribution Systems (Interpolation de la Formule de Colebrook pour l'Application de la methode de Hardy Cross aux ReSEAUX de Distribution d'eau), W85-05542	1810	8B				
<b>ROSSITER, J. A.</b>						
Evaluation of Artificial Wetlands in North Dakota: Recommendations for Future Design and Construction, W85-06066	1811	6G				
<b>ROSSMILLER, R. L.</b>						
Water Management for Small Urbanizing Watershed, W85-06026	1811	4A				
<b>ROSSO, R.</b>						
Linear Approach to the Influence of Discharge Measurement Error on Flood Estimates, W85-05907	1811	2E				
Nash Model Relation to Horton Order Ratios, W85-02158	1804	2A				
<b>ROSSOW, M. P.</b>						
Sheetpile Interlock Tension in Cellular Cofferdams, W85-01872	1804	8A				
<b>ROSSWALL, T.</b>						
In Situ Methane Production from Acid Peat in Plant Communities with Different Moisture Regimens in a Subarctic Mire, W85-05720	1810	2K				
<b>ROSTAD, C. E.</b>						
Bonded-Phase Extraction Column Isolation of Organic Compounds in Groundwater at a Hazardous Waste Site, W85-03734	1807	5A				
<b>ROSTEN, P. W. JR.</b>						
Migration of Pollutants in Groundwater. II. Adsorbable Pollutants and Numerical Dispersion Reduction, W85-06290	1812	5B				
<b>ROTH, M.</b>						
Wastewater Filtration with the Aid of a Quasi-continuously-fed Compact Filter Facility (Abwasserfiltration mit Hilfe einer quasikontinuierlich betriebenen Kompaktfilteranlage), W85-05041	1810	5D				
Wastewater Purification in the Hide Glue Industry (Abwasserreinigung bei der Hauteimindustrie), W85-05142	1810	5D				
<b>ROTHSCHILD, E. R.</b>						
Computerized Technique for Estimating the Hydraulic Conductivity of Aquifers From Specific Capacity Data, W85-05846	1810	2F				

## AUTHOR INDEX

**ROTHSCHILD, E. R.**

<b>ROWE, L. K.</b>			
Hydrological Regime of Undisturbed Mixed Evergreen Forests, South Nelson, New Zealand, W85-00179	1801	4C	
<b>ROWE, M.</b>			
Freshwater 'Central Lens' of Bermuda, W85-02464	1805	2F	
<b>ROWE, P. W.</b>			
Jamuna River 230 kV Crossing - Bangladesh, I. Design of Foundations, W85-04470	1809	8A	
<b>ROWE, R. K.</b>			
1-D Pollutant Migration in Soils of Finite Depth, W85-06024	1811	5B	
<b>ROWLAND, R. G.</b>			
PCB Resistance within Phytoplankton Populations in Polluted and Unpolluted Marine Environments, W85-04864	1809	5C	
<b>ROWLATT, S. M.</b>			
Sewage Sludge Dumping and Contamination of Liverpool Bay Sediments, W85-02291	1805	5B	
Water Quality Studies Around the Sewage Sludge Dumping Site in Liverpool Bay, W85-02290	1805	5B	
<b>ROWLEY, A. G.</b>			
Mechanisms of Metal Adsorption from Aqueous Solutions by Waste Tyre Rubber, W85-01724	1804	5D	
<b>ROWNEY, A. C.</b>			
Stream-Bed Armouring under Known Conditions of Upstream Sediment Input, W85-03197	1806	2J	
<b>ROWSAY, A. J.</b>			
Effects of Water Temperature and Salinity on Elimination of <i>Salmonella</i> charity and <i>Escherichia coli</i> from Sydney Rock Oysters (Crassostrea commercialis), W85-03436	1807	5B	
<b>ROXBURGH, I. S.</b>			
Groundwater Chemistry Change Due to Tidal Fluctuations in the Stonehouse Brewery Well, Plymouth, England, W85-06516	1812	2H	
<b>ROUSE, J. V.</b>			
Lysimeters Allow Quicker Monitoring of Heap Leaching and Tailing Sites, W85-06838	1812	5G	
<b>ROUSSEL, PH.</b>			
Small Hydroelectric Stations and the Environment (Environnement et petites usines hydroélectriques), W85-00381	1801	6G	
<b>ROUX, C.</b>			
Macroinvertebrates as 'Describers' of Morphological and Hydrological Types of Aquatic Ecosystems Abandoned by the Rhone River, W85-04722	1809	2H	
<b>ROYER, J. P.</b>			
Recovery of Hydraulic Energy: Small Installations Associated with Major Hydraulic Projects (Recuperation d'énergie Hydraulique: Petites Installations d'énergie Associes a de Grands Projets Hydrauliques), W85-00383	1801	8C	
<b>ROWBOTTON, I. A.</b>			
Time Patterns of Rainfall For Estimating Design Floods on a Frequency Basis, W85-01687	1804	2B	
<b>ROWE, D. K.</b>			
Some Effects of Eutrophication and the Removal of Aquatic Plants by Grass Carp ( <i>Ctenopharyngodon idella</i> ) on Rainbow Trout ( <i>Salmo gairdneri</i> ) in Lake Parkinson, New Zealand, W85-03072	1806	5C	
<b>ROWE, J. N.</b>			
Relative Source Contributions of Diet and Air to Ingested Asbestos Exposure, W85-02711	1806	5B	
<b>ROZANSKI, K.</b>			
Isotope Stratification in High Mountain Glaciers: Examples from the Peruvian Andes and Himalaya, W85-03345	1807	2C	
New Models for Interpreting Data on the Content of Environmental Tracers in Groundwaters and Their Combined Use, W85-04135	1808	2F	
<b>ROZAS, L. P.</b>			
Use of Oligohaline Marshes by Fishes and Macrofaunal Crustaceans in North Carolina, W85-02995	1806	2L	
<b>ROZICH, A.</b>			
Predictive Model for Treatment of Phenolic Wastes by Activated Sludge, W85-05279	1810	5D	
<b>ROZICH, A. F.</b>			
Response of Phenol-Acculturated Activated Sludge Process to Quantitative Shock Loading, W85-05559	1810	5D	
Selection of Growth Rate Model for Activated Sludges Treating Phenol, W85-06735	1812	5D	
<b>ROZIER, G.</b>			
Fluoride Analyses of Patient Water Supplies Requested by North Carolina Health Professionals, W85-03748	1807	5F	
<b>ROZIN, M. N.</b>			
Intense Methods of Winter Concreting of Underground Hydraulic Structures in the Far North, W85-00494	1801	8F	
<b>RUANE, R. J.</b>			
Reservoir Release Improvement, W85-05298	1810	5G	
<b>RUARDIJ, P.</b>			
One-Dimensional Mixing and Flushing Model of the Ems-Dollard Estuary: Calculation of Time Scales at Different River Discharges, W85-01838	1804	2L	
Use of a Model to Assess Factors Affecting the Oxygen Balance in the Water of the Dollard, W85-01839	1804	2L	
<b>RUBANIK, M. N.</b>			
Calculation of the Seepage of Reservoir Dikes of Pumped-Storage Stations, W85-00444	1801	8B	
Dynamics of the Formation of an Ice Prism on Reservoir Slopes of a Pumped-Storage Station, W85-00441	1801	8A	
Wind and Wave Regimes of the Kiev Pumped-Storage Station Reservoir, W85-00449	1801	4A	
<b>RUBIN, A. J.</b>			
Adsorption of Anionic and Cationic Metals by Non-Ionic Polymeric Resins, W85-06312	1812	5D	
Coagulation and Restabilization of Particulate, Macromolecular and Protected Organic Aquasols by Aluminum (III), W85-02105	1804	5F	
Inactivation of Giardia lamblia Cysts with Ozone, W85-02937	1806	5F	
Inactivation of Naegleria and Giardia Cysts in Water by Ozonation, W85-02580	1805	5F	
<b>RUBIN, A. R.</b>			
General Guidelines for Subsurface Treatment of Wastewater, W85-00080	1801	5D	

## AUTHOR INDEX

RUSSELL, J. M.

**RUBIN, H. E.**  
Growth of Phenol-Mineralizing Microorganisms in Fresh Water,  
W85-04256 1808 2H

Incorporation of Phenol Carbon at Trace Concentrations by Phenol-Mineralizing Microorganisms in Fresh Water,  
W85-04257 1808 5B

**RUBINSTEIN, J.**  
Water Conservation and Capacity Expansion,  
W85-01579 1803 3D

**RUBINSTEIN, N. I.**  
Dietary Accumulation of PCBs from a Contaminated Sediment Source by a Demersal Fish (*Leiostomus xanthurus*),  
W85-03690 1807 5B

Dietary Accumulation of PCBs from a Contaminated Sediment Source by a Demersal Fish Species (*Leiostomus xanthurus*),  
W85-05600 1810 5C

**RUBIO-MONTOYA, D.**  
Erodibility of Strip-Mine Spoils,  
W85-04344 1808 2J

**RUBLEE, P. A.**  
Distribution and Activity of Bacteria in the Headwaters of the Rhode River Estuary, Maryland, USA,  
W85-03237 1807 2L

**RUCH, D. L.**  
Evaluation of Design of Ford Motor Company Industrial Waste Treatment Facilities,  
W85-05397 1810 5D

**RUCK, W.**  
Method for the Determination of COD of Low Loaded Waters (Eine CSB-Methode fur Gering Belastete Wasser),  
W85-05044 1810 5A

**RUCKEN, W.**  
Adapted Microorganisms Replace Destroyed Biomass (Adaptierte Mikroorganismen ersetzen zerstörte Biomasse),  
W85-05139 1810 5D

**RUDAKOV, V. K.**  
Calculation of the Seepage of Reservoir Dikes of Pumped-Storage Stations,  
W85-00444 1801 8B

**RUDD, J. W. M.**  
Effects of Lake Acidification on Rates of Organic Matter Decomposition in Sediments,  
W85-02218 1805 5C

Method for Measuring the Response of Sediment Microbial Communities to Environmental Perturbations,  
W85-04067 1808 2H

**RUDD, T.**  
Complexation of Heavy Metals by Extracellular Polymers in the Activated Sludge Process,  
W85-04290 1808 5D

**RUDDY, B. C.**  
Reservoir Evaporation in Central Colorado,  
W85-00613 1802 2D

**RUDNICK, D. T.**  
Recovery of a Polluted Estuarine System: A Mesocosm Experiment,  
W85-01046 1802 5B

**RUDY, R. J.**  
Utilization of Shallow Geophysical Sensing at Two Abandoned Municipal/Industrial Waste Landfill on the Missouri River Floodplain,  
W85-03175 1806 5A

**RUFENACHT, H. P.**  
Aeration of the Discharge Jet in Large Flood-Control Facilities (Die Belüftung des Abfluss-

strahls bei grossen Hochwasserentlastungsanlagen),  
W85-01262 1803 8A

**RUFF, J. F.**  
Scour at Culvert Outlets in Multibed Materials,  
W85-06071 1811 2J

**RUFFER, H.**  
Use of Biofiltration for Further Wastewater Treatment,  
W85-03649 1807 5D

**RUFFINI, F.**  
Determination of the Trophic State of Lake Trasimeno by Indirect Analysis of Nitrogen and Phosphorus (Determinazione Dello Stato Trofico Del Lago Trasimeno Attraverso La Valutazione Indiretta Dell'Azoto E Del Fosforo),  
W85-02497 1805 5C

**RUGGIU, D.**  
Nutrient Load, Trophic Condition and Restoration Prospects of Lake Maggiore,  
W85-06883 1812 2H

**RUHL, J. F.**  
Hydrogeologic and Water-Quality Characteristics of the Ironton-Galesville Aquifer, Southeast Minnesota,  
W85-00028 1801 4B

**RULIFSON, R. A.**  
Traveling Screens as Sampling Gear for Vertical Distribution Studies,  
W85-01842 1804 7B

**RULLI, V.**  
Light Attenuation in Spanish Reservoirs. Relationship with Chlorophyll and Suspended Particulate Material (Extincion de la luz en los Embalses Espanoles. Relaciones con la Concentracion de Clorofila y las Particulas en Suspension),  
W85-05747 1810 2H

**RULLIERE, M. C.**  
Classification of Daily, Monthly and Seasonal Rainfall over France (Typologie des Precipitations Quotidiennes, Mensuelles et Saisonnieres sur La France),  
W85-00393 1801 2B

**RUMELIN, B.**  
How the Main-Danube Link Facilitates Navigation and Saves Water (La liaison Main-Danube favorise la navigation et l'économie de l'eau),  
W85-00370 1801 4A

**RUMMEL, G.**  
Small Hydro Supplements Irrigation Scheme,  
W85-06128 1811 8A

**RUMP, H. H.**  
Behaviour of Some Organic Micropollutants in River Sediments and Groundwater,  
W85-03288 1807 5B

**RUMSEY, P. B.**  
Prediction and Control of Ground Movement Associated with Trench Excavation,  
W85-04516 1809 8D

**RUMYANTSEV, V. A.**  
Intense Methods of Winter Concreting of Underground Hydraulic Structures in the Far North,  
W85-00494 1801 8F

**RUMYANTSEV, V. S.**  
Quick Method of Field Observations of Wastewater Spreading in Lakes,  
W85-05161 1810 5A

**RUNDEL, P. W.**  
Comparative Water Relations of Phreatophytes in the Sonoran Desert of California,  
W85-00256 1801 2I

**RUNKE, H. M.**  
Significance of Internal Loading to Lake Phosphorous Budgets,  
W85-03710 1807 5B

**RUNNELLS, D. D.**  
Ground Water Redox Reactions: An Analysis of Equilibrium State Applied to Eh Measurements and Geochemical Modeling,  
W85-02357 1805 2F

**RUNNING, S. W.**  
Microclimate Control of Forest Productivity: Analysis by Computer Simulation of Annual Photosynthesis/Transpiration Balance in Different Environments,  
W85-06201 1812 2D

Water and Nutrient Outflow from Contrasting Lodgepole Pine Forests in Wyoming,  
W85-04882 1809 2I

**RUNYON, K.**  
Red Hill Disposal Site: A Case Study,  
W85-05368 1810 5E

**RUSE, L. P.**  
Monitoring of River Water Quality within the Great Ouse Basin Using the Chironomid Exuvial Analysis Technique,  
W85-04454 1809 5A

**RUSH, F. E.**  
Geohydrologic and Drill-Hole Data for Test Well USW H-3, Nye County, Nevada,  
W85-03901 1808 2F

**RUSHTON, K. R.**  
Interference Due to Neighboring Wells During Pumping Tests,  
W85-06826 1812 2F

Investigation into the Effect of Different Pumping Regimes on Drawdown in Large Diameter Wells,  
W85-02826 1806 4B

Numerical Method of Pumping Test Analysis Using Microcomputers,  
W85-02694 1805 4B

Reliability of Packer Tests for Estimating the Hydraulic Conductivity of Aquifers,  
W85-03773 1808 2F

Unreliability of Open Observation Boreholes in Unconfined Aquifer Pumping Tests,  
W85-00331 1801 4B

**RUSSEK, E.**  
Quantification of Stream Drift,  
W85-04842 1809 2H

**RUSSEL, H.**  
Separation of Molybdoheteropoly Acids of Phosphorus, Arsenic, Silicon and Germanium as Ion-Associates by HPLC. Application to Quantitative Determination in Water,  
W85-06764 1812 5A

**RUSSEL, L. L.**  
Impact of Priority Pollutants on Publicly Owned Treated Works Processes: A Literature Review,  
W85-05300 1810 5F

**RUSSELL, A. E.**  
Leaching from a Tropical Andept During Big Storms: A Comparison of Three Methods,  
W85-06209 1812 2G

**RUSSELL, J. D.**  
New Approach to Canal and Waterway Maintenance,  
W85-03274 1807 4A

**RUSSELL, J. M.**  
Recovery of Protein from Slaughterhouse Effluents by Double Adjustment of pH,  
W85-05253 1810 5D

## AUTHOR INDEX

**RUSSELL, J. V.**

**RUSSELL, J. V.**  
Interactive Computer Modeling, Monitoring, and Control of Melbourne's Water Supply System, W85-05492 1810 5F

**RUSSELL, N. J.**  
Survey of Sodium Dodecyl Sulphate (SDS) Resistance and Alkylsulphatase Production in Bacteria from Clean and Polluted River Sites, W85-05848 1811 5C

**RUSSELL, S. O. D.**  
First and Second Order Analyses of Parameter Uncertainty in Drainage Design, W85-03400 1807 2E

**RUSSEV, B. K.**  
Characteristics of Autopurification in the Ossam River, a Tributary of the Danube (Einige Besonderheiten in der Selbstreinigung des Donauzuflusses Ossam), W85-03100 1806 5B

Hydrobiological and Saprobiological Alterations in the Tunja River. I. 1955 - 1967 (Tendensii v Izmeneniyata na Khidrobiologichnoto i Saprobiologichnoto Stoyanite na Reka Tundza. I. 1955-1967 g.), W85-03106 1806 5B

**RUSSO, D.**  
Geostatistical Approach to Solute Transport in Heterogeneous Fields and Its Applications to Salinity Management, W85-02668 1805 5B

Leaching and Water Requirement Studies in a Gypserous Desert Soil, W85-06540 1812 3F

Statistical Analysis of Crop Yield-Soil Water Relationships in Heterogeneous Soil under Trickle Irrigation, W85-03966 1808 2A

**RUST, B. R.**  
Sedimentation in Fluvial and Lacustrine Environments, W85-02057 1804 2J

**RUSTEN, B.**  
Wastewater Treatment with Aerated Submerged Biological Filters, W85-01736 1804 5D

**RUTHERFORD, J. C.**  
Accurate Modeling of River Pollutant Transport, W85-02277 1805 5B

Chlorophyll-Nutrient Relationships in North Island Lakes (New Zealand), W85-05869 1811 2H

Trends in Lake Rotorua Water Quality, W85-04669 1809 2H

**RUTLEDGE, E. M.**  
Disposal of Household Wastewater in Soils of High Stone Content (1981-1983), W85-01815 1804 5D

**RUUS, E.**  
Charts for Water Hammer in High Head Pump Discharge Lines Resulting from Pump Failure and Check Valve Closure, W85-06552 1812 8B

Charts for Water Hammer in Low Head Pump Discharge Lines Resulting from Water Column Separation and Check Valve Closure, W85-05455 1810 8B

**RUUS, L.**  
Wastewater Treatment at a Swedish Cardboard Factory: Possible Cost Savings, W85-05259 1810 5D

**RUZZO, W. P.**  
Storm Drainage Design and Technical Criteria, W85-05484 1810 4A

**RYALS, G. N.**  
Regional Geohydrology of the Northern Louisiana Salt-Dome Basin, Part III, Potentiometric Levels of the Wilcox-Carrizo and Sparta Aquifers, W85-01785 1804 2F

Regional Geohydrology of the Northern Louisiana Salt-Dome Basin, Part IV, Hydraulic Characteristics of the Wilcox-Carrizo Aquifer, W85-00034 1801 4B

**RYAN, D. E.**  
Determination of Seven Trace Elements in Natural Waters by Neutron Activation Analysis after Preconcentration with 1-(2-Pyridylazo)-2-Naphthol, W85-01615 1811 2K

**RYAN, J. J.**  
Incidence and Levels of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Lake Ontario Commercial Fish, W85-02349 1805 5B

**RYAN, K. P.**  
Ultrastructural Localization of Metals in Specimens of *Littorina littorea* Collected from Clean and Polluted Sites, W85-02543 1805 5C

**RYAN, R. D.**  
Moisture Stress Effects on Biomass Partitioning in Two Sonoran Desert Annuals, W85-00089 1801 2I

**RYAN, W. L.**  
Status of Sanitation Facilities in Alaska - 1982, W85-04915 1809 6B

**RYBAK, M.**  
Some Ecological Effects of Artificial Circulation on the Phytoplankton, W85-06009 1811 5G

**RYDEN, J. C.**  
Nitrate Leaching from Grassland, W85-02404 1805 5G

**RYDING, S.-O.**  
Frequency Distributions of Water Quality Variables; Relationships Between Mean and Maximum Values, W85-00553 1802 5B

Lake Trehorningen Restoration Project. Changes in Water Quality after Sediment Dredging, W85-02097 1804 5G

**RYMAN, N.**  
Pollution Biomonitoring Programs and the Genetic Structure of Indicator Species, W85-05465 1810 5A

**RYRIE, S. C.**  
Optimally Controlled Hydrodynamics for Tidal Power in the Severn Estuary, W85-06560 1812 8B

**SAAD, M. A. H.**  
Effect of Pollution on the Coastal Waters of the Red Sea in Front of Jeddah, Saudi Arabia; 1. Environmental Conditions, W85-04710 1809 5C

Effect of Pollution on the Coastal Waters of the Red Sea in Front of Jeddah, Saudi Arabia; 2. Nutrient Salts, W85-04711 1809 5C

Metals and Chlorinated Hydrocarbons in Surficial Sediments of Three Nile Delta Lakes, Egypt, W85-05037 1810 6G

Status of Nutrients in Lake Mariut, a Delta Lake in Egypt Suffering from Intensive Pollution, W85-03241 1807 5B

**SAAVA, A. E.**  
Water Protection Problems in Estonia: Hygienic Aspects, W85-04113 1808 5G

**SAAVEDRA, J.**  
Integrated Planning System for Hydro Development in Ecuador, W85-04780 1809 6A

**SABADELL, J. E.**  
Desertification in the United States, Status and Issues, W85-05125 1810 2D

**SABANSKAS, M.**  
Fouling Community of the Loxahatchee River Estuary, Florida, 1980-81, W85-02398 1805 2L

**SABANSKAS, W. H.**  
Fouling Community of the Loxahatchee River Estuary, Florida, 1980-81, W85-02398 1805 2L

**SABBAGH, J.**  
Performance of Multiple Effect Diffusion Stills, W85-03975 1808 3A

Performance of Multiple Effect Diffusion Stills, W85-07094 1812 3A

**SABBIONI, E.**  
Heavy Metal Uptake and Intracellular Binding in Isolated Gill Preparations of *Mytilus galloprovincialis* L., W85-04358 1808 5C

**SABET, M. H.**  
Cost Effective Operation of Urban Water Supply System Using Dynamic Programming, W85-06241 1812 5F

Optimal Operation of California Aqueduct, W85-06033 1811 4A

**SABOLSKA, B. M.**  
Simulated Mechanical Control of Aquatic Plants in Buffalo Lake, Wisconsin, W85-06998 1812 4A

**SABYLINA, A. V.**  
Abiotic Environmental Factors and Primary Production of Water Bodies of the Kovda River Basin (Abioticheskie Faktory i Pervichnaya Produktsiya Vodoemov Basseina r. Kovdy), W85-06480 1812 2H

**SACHETI, N. C.**  
Stokes and Rayleigh Layers in Presence of Naturally Permeable Boundaries, W85-07099 1812 2E

**SACKELLARE, R. W.**  
Near Zero D.O. Activated Sludge Case History, W85-05556 1810 5D

**SACKS, R. S.**  
Ann Arbor Controls Trihalomethanes, W85-01911 1804 5F

**SADEGH, A. M.**  
Microwave Measurements of Moisture Distributions in the Upper Soil Profile, W85-02160 1804 2G

**SADEGHPOUR, J.**  
Parameter Identification of Groundwater Aquifer Models: A Generalized Least Squares Approach, W85-02164 1804 2F

**SADEK, S. E.**  
Age and Growth of *Barbus grypus Heckel* from a Polluted River, W85-01451 1803 5C

## AUTHOR INDEX

SALKINOJA-SALONEN, M.

**SADHU, A. K.**  
Relationship between Serum Enzymes, Histological Features and Enzymes in Hepatopancreas after Sublethal Exposure to Malathion and Phosphamidon in the Murrel *Channa striatus* (Bl.), W85-06557 1812 5C

**SADURSKI, A.**  
Presence of Tin and Tungsten in Thermal Waters Connected with Granites of Some Selected Regions in Europe, W85-05857 1811 2F

**SAEB, M.**  
Integrity of Interconnected Water Systems, W85-00611 1802 8B

**SAAED, M.**  
Effect of Treatment with a Commercial Bacterial Suspension on Water Quality in Channel Catfish Ponds, W85-01922 1804 5F

**SAENGER, P.**  
Macrofaunas of the Cooling Water Discharge Canal of the Gladstone Power Station, Queensland, W85-00789 1802 5C

**SAENZ, M.**  
Migration of Pollutants in Groundwater. II. Adsorbable Pollutants and Numerical Dispersion Reduction, W85-06290 1812 5B

**SAFFERMAN, R. S.**  
Use of Bituminous Coal as an Alternative Technique for Field Concentration of Waterborne Viruses, W85-07129 1812 5A

**SAFFIGNA, P. G.**  
Interpretation of Leaching under Multiple Fertilizer Applications, W85-06564 1812 5B

Theory of Solute Transport in Soils from the Method of Characteristics, W85-05937 1811 2G

**SAGAR, P. M.**  
Invertebrate Recolonisation of Previously Dry Channels in the Rakaia River, W85-00804 1802 2H

**SAGE, M.**  
Fractionation of Organic and Inorganic Phosphorus Compounds in Lake Sediments, An Attempt to Characterize Ecologically Important Fractions (Die Fraktionierung Organischer und Anorganischer Phosphorverbindungen von Sedimenten, Versuch einer Definition Okologisch Wichtiger Fraktionen), W85-05728 1810 2H

**SAGE, P. V.**  
Pressure Transients Caused by Slams and Bursts in Water Pipelines, W85-06576 1812 8B

**SAGEEV, A.**  
Detection of Linear Boundaries by Drawdown Tests: A Semilog Type Curve Matching Approach, W85-05793 1810 2F

**SAGER, D. R.**  
Differential Accumulation of Selenium among Axial Muscle, Reproductive and Liver Tissues of Four Warmwater Fish Species, W85-01385 1803 5C

**SAGER, P. E.**  
Phytoplankton Standing Stock, Size Distribution, Species Composition and Productivity Along a Trophic Gradient in Green Bay, Lake Michigan, W85-02640 1805 2H

**SAHA, P.**  
Analysis and Prediction of Short Period Droughts During Summer Monsoon over India, W85-05085 1810 2B

**SAHEKI, K.**  
Relationships of Total Coliform, Fecal Coliform, and Organic Pollution Levels in the Tamagawa River, W85-02717 1806 5C

**SAHLBERG, J.**  
Hydrodynamical Model for Calculating the Vertical Temperature Profile in Lakes During Cooling, W85-01238 1803 2H

**SAIN, L. E.**  
Toxicology of Organic Drinking Water Contaminants: Trichloromethane, Bromodichloromethane, Dibromochloromethane and Tribromomethane, W85-01211 1803 5C

**SAIN, P.**  
Decomposition of Wild Rice (*Zizania aquatica*) Straw in Two Natural Lakes of Northwestern Ontario, W85-01647 1804 2H

**SAITO, M.**  
Adsorption of Surfactants on Sediments, W85-01960 1804 5A

**SAITO, T.**  
Study on Organic Pollution Parameters for Dyes and Dyeing Auxiliaries, W85-03746 1807 5C

**SAIZ, D. A.**  
Plankton as a Basis for the Estimation of the Possible Natural Fish Productivity of Durankulak Lake (Plankton't Kato Baza za Otsenka na Potencialnata Estestvena Piboproduktivnost na Kramorskoto Ezero Durankulak), W85-03099 1806 2H

**SAJAN, K.**  
Studies on the Distribution of Organic Matter Content in Sediments of the Ashtamudy Lake, Kerala, W85-01463 1803 2L

**SAKATA, M.**  
Partitioning of Heavy Metals into Mineral and Organic Fractions in Sediments from a Reservoir, W85-00189 1801 2H

**SAKHAROV, I. N.**  
On-Site Observations at the Atbashi Hydroelectric Station, W85-00448 1801 8A

**SAKHAROV, V. I.**  
Epoxy-Bitumen Water Proofing of Hydraulic Structure, W85-00461 1801 8G

**SAKHAROVA, N. B.**  
Change in the Ice and Thermal Regime of the Vilyui River in the Lower Pool of the Vilyui I-II Hydrostation, W85-00480 1801 6G

**SAKSENA, A.**  
Statistical Study on Incidence of Drought in Relation to Agricultural Production, W85-05089 1810 2B

**SAKTHIVADIVEL, R.**  
Watershed Bounded Network Model (WBNM) for Runoff Prediction of Large Basins, W85-01237 1803 2E

**SAKVARELIDZE, V. V.**  
Determination of Velocities of Mass Movement of Sediments on the Foreshore, W85-05147 1810 2J

**SALAMEH, E.**  
Isotopic Analyses and Hydrochemistry of the Thermal Springs along the Eastern Side of the Jordan Dead Sea - Wadi Araba Rift Valley, W85-02462 1805 2F

**SALAMON, K. J.**  
Measurement of the Effect of Aroclor 1254 on the Respiration of Gammarus using Potentiometric Respirometry, W85-07122 1812 5C

**SALANKI, J.**  
Dynamics of Mercury and Cadmium Uptake into Different Organs of *Anodonta cygnea* L., W85-02910 1806 5C

Utilization of Crustacea Zooplankton for Estimating Heavy Metal Pollution of Lake Balaton (Ispol'zovanie Rachkovogo Zooplanktona (Crustacea) Dlya Otsenki Zagryazneniya oz. Balaton Tyazhelyimi Metaliami), W85-06469 1812 5A

**SALAS, A. C.**  
Reduction of Costs and Liability Risks in Electroplating Wastewater Treatment, W85-01852 1804 5D

**SALAS, J. D.**  
Plotting Positions for Pearson Type-III Distribution, W85-03079 1806 2E

**SALATI, E.**  
Amazon Basin: A System in Equilibrium, W85-01499 1803 2A

Evapotranspiration of the Forest in the Amazon Region (Evapotranspiracao de Florestas da Regiao Amazonica), W85-06450 1812 2D

Precipitation in the Central Amazon Basin: The Isotopic Composition of Rain and Atmospheric Moisture at Belem and Manaus, W85-02816 1806 2B

**SALBU, B.**  
Particle Discrimination Effects in the Determination of Trace Metals in Natural Fresh Waters, W85-06252 1812 5A

**SALEH, H.**  
Mercury Removal from a Chloralkali Plant in Egypt, W85-05421 1810 5D

**SALEMBIER, M.**  
Leakage Control Works at the Rouchain Dam, W85-04028 1808 8A

**SALEWICZ, K.**  
Operation of Reservoir Systems with Special Reference to the Upper Wisla, W85-04102 1808 6A

**SALIH, A. M. A.**  
Evapotranspiration under Extremely Arid Climates, W85-02447 1805 2D

**SALIM, D.**  
Slumpings of the Valleys Encompassing Idukku Reservoir, Central Kerala, India, W85-00961 1802 4D

**SALKELD, P. N.**  
Responses of the Mussel *Mytilus edulis* to Copper and Phenanthrene: Interactive Effects, W85-05886 1811 5C

**SALKI, A.**  
Effects of Impoundment and Diversion on the Crustacean Plankton of Southern Indian Lake, W85-00637 1802 6G

**SALKINOJA-SALONEN, M.**  
Principles of Composting, W85-05206 1810 5E

## AUTHOR INDEX

### SALKINOJA-SALONEN, M. S.

**SALKINOJA-SALONEN, M. S.**  
Fluidized Bed Technology in the Anaerobic Treatment of Forest Industry Wastewaters, W85-07006 1812 5D

**SALMINEN, R.**  
Phytoplankton Primary Production in a Eutrophic Cooling Water Pond, W85-04063 1808 2H

**SALMOIRAGHI, G.**  
Limnology of Suviana-Brasimone Man-Made Lakes: Influence of Pumped Storage Operations on Physical, Chemical and Biological Characteristics, W85-05641 1810 6G

**SALO, A.**  
Transport of Airborne 90Sr and 137Cs Deposited in the Basins of the Five Largest Rivers in Finland, W85-03678 1807 5B

**SALO, J. E.**  
Evaluation Technique for Ground Water Quality Beneath Urban Runoff Retention and Percolation Basins, W85-04417 1809 2G

**SALOKANGAS, A.**  
Package Waste Water Treatment Plants, W85-05209 1810 5D

**SALOMONS, W.**  
Standardization of Methods of Analysis for Heavy Metals in Sediments, W85-02104 1804 5A

**SALONEN, K.**  
Autumnal and Vernal Circulation of Small Forest Lakes in Southern Finland, W85-02607 1805 2H

Hypolimnetic Phosphorus Retrieval by Diel Vertical Migrations of Lake Phytoplankton, W85-02286 1805 2H

**SALTANKIN, V. P.**  
Investigation of the Space-Time Variability of Physical, Chemical, and Biological Indices in Reservoirs for the Purpose of Their Regionalization with Special Reference to the Ivankovo Reservoir, W85-04104 1808 2H

**SALVIGSEN, O.**  
Glaciation Development and Interstadial Sea-Level on Central Spitsbergen, Svalbard, W85-06843 1812 2C

**SAMANI, Z. A.**  
Economic Considerations of Deficit Irrigation, W85-03817 1808 3F

**SAMARITAN, J. M.**  
Fishes of an Urban Stream; The Bronx River, New York, W85-00935 1802 2H

**SAMBASIVA RAO, K. R. S.**  
Combined Action of Carbaryl and Phenthaoate on Tissue Lipid Derivatives of Murrel, Channa punctatus (Bloch), W85-05813 1810 5C

**SAMBUGAR, B.**  
Oligochaeta of the Middle Po River (Italy): Principal Component Analysis of the Benthic Data, W85-02774 1806 2H

**SAMMIS, T. S.**  
Irrigated Agricultural Decision Strategies for Variable Weather Conditions, W85-06340 1812 6A

**SAMMIS, T. W.**  
Field Study of Plant Resistance to Water Flow in Alfalfa, W85-03360 1807 2I

Water-Use Production Functions of Selected Agronomic Crops in Northwestern New Mexico, Phase II, W85-01817 1804 3F

**SAMPATH, R. K.**  
Income Distribution Impacts of Irrigation Water Distribution Policy, W85-01337 1803 6B

**SAMSON, F. B.**  
Metals in Riparian Wildlife of the Lead Mining District of Southeastern Missouri, W85-05110 1810 5C

**SAMSON, P. J.**  
Atmospheric Trajectory Models for Diagnosing the Sources of Acid Precipitation, W85-05314 1810 5B

**SAMUEL, E. A.**  
Hydrology of the Newberry Volcano Caldera, Oregon, W85-00084 1801 2F

**SAMUELIAN, J. H.**  
Measurement of the Effect of Aroclor 1254 on the Respiration of Gammarus using Potentiometric Respirometry, W85-07122 1812 5C

**SAMUELS, W. B.**  
Population Growth Patterns of Skeletonema costatum and Nutrient Levels in the Lower East River, New York, U.S.A., W85-00397 1801 5C

**SAMY, I.**  
Microbial Indicators and Pathogens near the Mouth Region of Vembanad Lake, W85-01465 1803 5B

**SAND, W.**  
Cloud Physics Studies in the SCPP, 1982-1983, W85-04214 1808 3B

**SANDARS, G.**  
Method of Determining and Removing Sulphide to Allow the Determinations of Sulphate, Phosphate, Nitrite and Ammonia by Conventional Methods in Small Volumes of Anoxic Waters, W85-06163 1811 5A

**SANDER, G. G.**  
Water and Air Movement in Soils: An Application of Brutsaert's and Optimization Techniques, W85-03094 1806 2G

**SANDER, G. C.**  
Similarity and First-Integral Solutions for Air and Water Diffusion in Soils and Comparison with Optimal Results, W85-04343 1808 2G

**SANDERS, B. J.**  
Effect of Furrow Irrigation Erosion on Crop Productivity, W85-05192 1810 6G

**SANDERS, F. S.**  
Use of Large Enclosures for Perturbation Experiments in Lentic Ecosystems: A Review, W85-05764 1810 5C

**SANDERS, J. G.**  
Adaptive Behavior of Euryhaline Phytoplankton Communities to Arsenic Stress, W85-06879 1812 5C

Effect of Water Chlorination on the Toxicity of Copper to Phytoplankton, W85-05581 1810 5C

**SANDERS, J. R.**  
Effects of pH on the Release to Solution of Zinc, Copper and Nickel from Metal-Loaded Sewage Sludges, W85-02742 1806 5B

**SANDERS, M.**  
Calculator Smooths Color Measurement Path, W85-03799 1808 7C

**SANDERS, V. M.**  
Toxicology of Organic Drinking Water Contaminants: Trichloromethane, Bromodichloromethane, Dibromochloromethane and Tribromomethane, W85-01211 1803 5C

**SANDERS, W. M.**  
New Continuously Monitored Collection System for Liquid Industrial Wastes, W85-03872 1808 8A

**SANDHEINRICH, M. B.**  
Intraspecific Resource Partitioning by Yellow Perch (*Perca flavescens*) in a Stratified Lake, W85-03826 1808 2H

**SANDHYA,**  
Alachlor Toxicity to a Freshwater Teleost Clarias batrachus, W85-04885 1809 5C

**SANDRIN, P.**  
Pumped-Storage: Peak Generation or Operating Reserve, W85-02673 1805 8A

**SANGREY, D. A.**  
Predicting Ground-Water Response to Precipitation, W85-02260 1805 2F

**SANOYAN, V. G.**  
Effect of Sediment-Transporting Flow on the Design of Hydraulic Structures, W85-03582 1807 8B

**SANT, S. B. V.**  
Fish-Nursery Use in Georgia Salt-Marsh Estuaries: The Influence of Springtime Freshwater Conditions, W85-03246 1807 2L

**SANTALA, E.**  
Quantity and Characteristics of Residential Wastewater, W85-05200 1810 5D

**SANTORI, M.**  
Sludge Dewatering in a Conventional Plant with Phosphorus Removal - I; Analysis of Additional Costs, W85-04970 1810 5D

Sludge Dewatering in a Conventional Plant with Phosphorus Removal - II; Study on Centrifuge and Filter-Press Performance, W85-04971 1810 5D

**SANTOS, A. D.**  
Humic Substances in Amazonia I: Chemical Characterization of Humic and Fulvic Acids from Two Central Amazonia Lacustrine Sediments (Black and White Water Systems), W85-02234 1805 2H

**SANTSCHI, P. H.**  
Accumulation of Sediments, Trace Metals (Pb, Cu) and Total Hydrocarbons in Narragansett Bay, Rhode Island, W85-03500 1807 5B

Particle Flux and Trace Metal Residence Time in Natural Waters, W85-02792 1806 2K

**SAPERSTEIN, L. W.**  
Modeling Fluid Flow in Selective Placement of Toxic Mine Spoil, W85-06839 1812 5B

**SAPOZHNIKOV, V. V.**  
Fine Structure of the Vertical Distribution of Organic and Inorganic Phosphorus (Tonkaya

## AUTHOR INDEX

**SAVOURE, B.**

**Strukturna Vertikal'nogo Raspredeleniya Organicheskogo i Mineral'nogo Fosfora),** W85-06457 1812 2H

**Production-Destruction Processes in the Budak Liman,** W85-04125 1808 2L

**SARASWATHY, R.**  
Differential Performance of Cleome gynandra L. (C4) and C. speciosa L. (C3) under Water, Stress and Recovery, W85-03219 1807 2I

**SARGENT, H. E.**  
Environmental Health Investigation of Copper Intoxication from a Public Water Supply, W85-05913 1811 5F

**SARIN, M. M.**  
Composition of Mineral Fractions of the Narbada and Tapti Estuarine Particles and the Adjacent Arabian Sea Sediments off Western India, W85-04373 1808 2L

**SARKAR, B. L.**  
Seasonal Distribution of Vibrio parahaemolyticus in Freshwater Environms and in Association with Freshwater Fishes in Calcutta, W85-04261 1808 5B

**SARKAR, C. K.**  
Computer Modelling of Reservoir Networks and Hydroelectric Plants, W85-02680 1805 8A

**SARMA, A. A. L. N.**  
Study of Aridity and Droughts in the Climatic Spectrum of the South Indian Region, W85-05079 1810 2B

**SARMA, P. B. S.**  
Recharge to Aquifers with Mixed Boundaries, W85-03081 1806 2F

**SARTOR, J. D.**  
Street Sweeping as a Water Pollution Control Measure: Lessons Learned over the Past Ten Years, W85-00743 1802 5G

**SARTORI, L.**  
Interconnected Groundwater Systems Simulation (IGROSS) - Description of the System and a Case History Application, W85-04277 1808 2F

**SARTORIS, J. J.**  
Effects of Operating the Mt. Elbert Pumped-Storage Powerplant on Twin Lakes, Colorado: 1981 Report of Findings, W85-05304 1810 2H

**SARUWATARI, C. A.**  
Design of Drip Irrigation Lateral Length on Uniform Slopes, W85-05929 1811 3F

**SARWADE, G. S.**  
Drought Prediction in India from Radiation Parameters, W85-05083 1810 2B

**SARZHINSKII, I. S.**  
Improvement of Water Accounting at Pumping Stations, W85-00464 1801 6F

Use of Simplified On-Site Characteristics when Automating Water Accounting at Hydraulic Structures, W85-00497 1801 4A

**SASAKI, M.**  
Change in Microbial Numbers During Thermophilic Composting of Sewage Sludge with Reference to CO<sub>2</sub> Evolution Rate, W85-04259 1808 5E

Characteristics of Mesophilic Bacteria Isolated during Thermophilic Composting of Sewage Sludge, W85-04260 1808 5E

Effect of Seeding During Thermophilic Composting of Sewage Sludge, W85-05513 1810 5D

**SASEENDRAN, K.**  
Slumpings of the Valleys Encompassing Idukki Reservoir, Central Kerala, India, W85-00961 1802 4D

**SASSER, C. E.**  
Vegetation and Primary Production in a Floating Freshwater Marsh in Louisiana, W85-04855 1809 2L

**SASTRI, A. S. R. A. S.**  
Agricultural Droughts and Crop Planning - a Case Study for Western Rajasthan, W85-05076 1810 2B

Prediction of Droughts in the Indian Arid Region, W85-05084 1810 2B

**SASTRI, C. V. S.**  
Drought Year of 1979 - A Critical Appraisal with Reference to the Semi-Arid Region of Delhi, W85-05077 1810 2B

**SASTRY, K. V.**  
Effect of Mercuric Chloride on Some Biochemical and Physiological Parameters of the Freshwater Murrel, Channa punctatus, W85-02727 1806 5C

Effect of the Carbamate Pesticide Sevin on the Intestinal Absorption of Some Nutrients in the Teleost Fish, Channa punctatus, W85-05697 1810 5C

In Vivo Effects of Cadmium on Some Enzyme Activities in Tissues of the Freshwater Catfish, Heteropneustes fossilis, W85-04434 1809 5C

**SASTRY, P. S. N.**  
Evaluation of Agricultural Drought Using Probability Distribution of Soil Moisture Index, W85-05075 1810 2B

**SATHE, A. P.**  
Some Observations on the Chemical Composition of Precipitation in an Industrial Area and It's Use in Air Quality Assessment, W85-02129 1804 5B

**SATO, E.**  
Adsorption and Desorption of Polydimethylsiloxane, PCBs, Cadmium Nitrate, Copper Sulfate, Nickel Sulfate and Zinc Nitrate by River Surface Sediments, W85-06432 1812 5B

**SATO, T.**  
Impact of Nutrient Load on Total Biomass and Species Succession in Lake Suwa, Japan, W85-04565 1809 5C

**SATO, Y.**  
Inorganic Carbonate Elimination from Water Samples for Dissolved Organic Carbon Analysis, W85-06002 1811 5A

**SATSMADJIS, J.**  
Mytilus galloprovincialis and Parapenaeus longirostris as Bioindicators of Heavy Metal and Organochlorine Pollution, W85-01899 1804 5A

**SATTAR, S. A.**  
Long-Term Survival of Human Rotavirus in Raw and Treated River Water, W85-06137 1811 5B

Rotavirus Survival in Conventionally Treated Drinking Water, W85-00897 1802 5A

**SAUGIER, B.**  
Evapotranspiration of a Deciduous Forest: Simulation Using Routine Meteorological Data, W85-04281 1808 2D

**SAUL, G.**  
Movement, Transport, and Scour of Particulate Organic Matter and Aquatic Invertebrates Downstream from a Peaking Hydropower Project, W85-06973 1812 6G

**SAUNDERS, F. J.**  
Biotechnology and Waste Treatment, W85-04337 1808 5D

**SAUNDERS, G. W.**  
Patterns of Diel Oxygen Change in Ponds of Tropical India, W85-05654 1810 2H

**SAUNDERS, J. F. III.**  
Chemical Patterns of Bulk Atmospheric Deposition in the State of Colorado, W85-03570 1807 5B

**SAVABI, M. R.**  
Rangeland Erosion Measurements for the USLE, W85-04728 1809 2J

**SAVAGE, A. A.**  
Biology and Management of an Inland Saline Lake, W85-06101 1811 2H

Use of Water Boatmen (Corixidae) in the Classification of Lakes, W85-00119 1801 2H

**SAVAGE, J. V.**  
Modification of a Stevens Type-F Recorder for Simultaneous Recording of Rainfall and Water Level, W85-01191 1803 7B

**SAVAGE, R.**  
State Initiatives in Nonpoint-Source Pollution Control, W85-05946 1811 5G

**SAVCHENKOV, N. G.**  
Prospects of Using Automated Management Systems in Earth-Dam Construction, W85-05022 1810 8A

**SAVELIEVA, O. N.**  
Microflora of Bottom Sediments in the Naroch Lake (Mikroflora Donykh Otlozhenii oz. Naroch'), W85-06460 1812 2H

**SAVICH, A. I.**  
Methods of Determining the Stress State of Rock Masses at Construction Sites of Hydraulic Structures, W85-06590 1812 8E

**SAVINOV, A. B.**  
Aggregates of Organic Substances in Fresh Waters and Their Role in Nutrition of Filter Feeding Cladocers (Agregaty Organicheskikh Veshchestv v Presnykh Vodakh i ikh Rol' Pitani Rachkov-Fil'tratorov), W85-06458 1812 2H

**SAVOIE, D. L.**  
Elimination of Ammonia Interference in the Purge-and-Trap GC Determination of Organohalogens in Water, W85-02811 1806 5A

**SAVOURE, B.**  
Toxic Effects of Vanadium on the Metabolism of Some Freshwater Algae Cultured in Vitro

## AUTHOR INDEX

### SAVOURÉ, B.

(Effects Toxiques du Vanadium Sur le Métabolisme de Quelques Algues d'eau Douce Cultivées in Vitro),  
W85-03692 1807 5C

**SAVOY, T. F.**  
Effects of Fluctuations in Hydrographic Conditions on Year-Class Strength of American Shad (*Alosa sapidissima*) in the Connecticut River, W85-02535 1805 2L

**SAWDER, P. G.**  
BASIC Hydrology, W85-06931 1812 2A

**SAWHNEY, B. L.**  
Organic Pollutants in Leachates from Landfill Sites, W85-01280 1803 5B

**SAWYER, S. W.**  
State Laws Mandating Water Conservation, W85-01806 1804 6E

State Water Conservation Strategies and Activities, W85-03133 1806 6F

**SAWYER, T. K.**  
Distribution and Possible Interrelationships of Pathogenic and Nonpathogenic Acanthamoeba from Aquatic Environments, W85-02189 1805 5B

Gill Fouling and Parasitism in the Rock Crab, *Cancer irroratus* Say, W85-05893 1811 5C

**SAXEN, R.**  
Transport of Airborne 90Sr and 137Cs Deposited in the Basins of the Five Largest Rivers in Finland, W85-03678 1807 5B

**SAXENA, A. B.**  
Effect of Sewage with Special Reference to Aquatic Insects in the River Kshipra (India), W85-05029 1810 5C

**SAXENA, P. K.**  
Influence of Temperature on the Toxicity of Phenol and its Chloro- and Nitro-Derivatives to the Fish *Notopтерus notopterus* (Pallas), W85-06661 1812 5C

**SAXTON, K. E.**  
Dynamic Flow Resistance for Hydrologic Simulations, W85-03785 1808 2J

Dynamic Simulation of Sediment Discharge from Agricultural Watersheds, W85-03401 1807 2J

Infiltration Rate of Slot Mulches: Measurement and Numerical Simulation, W85-02868 1806 2G

**SAYED, S. A. S.**  
Programmable Hand Calculator Programs for Pumping Test Analyses by Least Squares' Method Using Jacob's Modification of Theis' Equation, W85-00301 1801 4B

**SAYLER, G. S.**  
Impact of Coal-Coking Effluent on Sediment Microbial Communities: A Multivariate Approach, W85-00095 1801 5C

Predictive Assessment of Priority Pollutant Bio-Oxidation Kinetics in Activated Sludge, W85-02768 1806 5D

**SAYRE, M. W.**  
Presence and Biomagnification of Organochlorine Chemical Residues in Oxbow Lakes of Northeastern Louisiana, W85-02191 1805 5B

**SCALE, D. B.**  
Long-term Phytoplankton Changes in Lake Michigan: Cultural Eutrophication or Biotic Shifts, W85-02639 1805 2H

**SCANLON, P. F.**  
Heavy Metals in Aquatic Plants, Clams, and Sediments from the Chesapeake Bay, U.S.A. Implications for Waterfowl, W85-06549 1812 5B

Heavy Metals in Tissues of Waterfowl from the Chesapeake Bay, USA, W85-01448 1803 5C

**SCARABATTOLI, P.**  
Bacteriological and Chemical Variations and Their Inter-relationships in a Slightly Polluted Water-Body, W85-04034 1808 5A

**SCARFE, A. D.**  
Effects of the Black River (Cape, South Africa) on the Distribution and Survival of Marine Pammofauna, W85-05861 1811 2L

**SCHAAB, W. C.**  
Prior Appropriation, Impairment, Replacements, Models and Markets, W85-01248 1803 6E

**SCHAALJE, G. B.**  
Use of Tempe Cell, Modified to Restraining Swelling, for Determination of Hydraulic Conductivity and Soil Water Content, W85-00155 1801 2G

**SCHAEFER, F. L.**  
Distribution of Chloride Concentrations in the Principal Aquifers of the New Jersey Coastal Plain, 1977-1981, W85-00596 1802 5B

**SCHAEFER, R.**  
Optimization of a Wastewater Treatment Plant by the Employee Involvement Optimization System (EIOS), W85-03330 1807 5D

**SCHAFFER, D. J.**  
Complying with NPDES Permit Limits: When a Violation is a Violation, W85-07038 1812 6E

Evaluation of a Community-Based Index Using Benthic Indicator-Organisms for Classifying Stream Quality, W85-07046 1812 5A

Municipal Compliance - Another View, W85-02571 1805 6E

**SCHAFFER, C. T.**  
Significance of Natural and Anthropogenic Sediment Inputs to the Saguenay Fjord, Quebec, W85-01053 1802 2J

**SCHAFER, R.**  
Sediment Transport Measurements of Two Northern German Creeks (Messungen des Feststofftransports von zwei Norddeutschen Bächen), W85-03448 1807 2J

**SCHAFFNER, C.**  
Determination of Nitrilotriacetic Acid in Water by High Resolution Gas Chromatography, W85-03887 1808 5A

Groundwater Contamination by Volatile Halogenated Alkanes: Abiotic Formation of Volatile Sulfur Compounds under Anaerobic Conditions, W85-06148 1811 5B

**SCHAFRAN, G. C.**  
Short-Term Changes in the Base Neutralizing Capacity of an Acid Adirondack Lake, New York, W85-01917 1804 5B

**SCHALCK, J.**  
Water Stress Induction Using Polyethylene Glycol in Nutrient Film Technique. Effects of the Photosynthetic Parameters of three Tomato Species and one Hybrid, W85-03838 1808 2I

**SCHALEKAMP, M.**  
All About Ozone - Its Advantages and Disadvantages in Treating Water, W85-01986 1804 5F

Hardhof Groundwater Complex in Zurich, W85-00709 1802 5G

Report on the Water Supply of the People's Republic of China, W85-01195 1804 5F

Review of the Water Supply in the Soviet Union, W85-02012 1804 5F

Water Supply of Alexandria Egypt, W85-01985 1804 5F

**SCHAMBER, D. R.**  
One-Dimensional Models for Partially Breached Dams, W85-02266 1805 8B

**SCHAMP, N.**  
CG-MS Identification of Odorous Volatiles in Wastewater, W85-07119 1812 5A

**SCHANZ, F.**  
Plant Growth Potential of the River Rhine and its Tributaries from Lake Constance to Basle (1978/79) (Die pflanzliche Produktionskraft des Rheins und seiner Zuflüsse vom Bodensee-Untersee bis Basel (1978/79)), W85-01274 1803 5B

Vertical Light Attenuation and Phytoplankton Development in Lake Zurich, W85-07069 1812 2H

**SCHAPAUGH, W. T. JR.**  
Stress Tolerance in Soybeans. I. Evaluation of Three Screening Techniques for Heat and Drought Tolerance, W85-06206 1812 2I

**SCHARER, J.**  
Origin of the Heavy Metals in Sewage Sludge and in Compost from the Mura Waste and Wastewater Works in Biel (Herkunft der Schwermetalle im Klarschlamm und im Kompost des Kehricht- und Abwasserwerks Mura in Biel), W85-01360 1803 5D

**SCHAUB, K.**  
Investigation of the Carrying Capacity of the Monocacy River as a Scenic and Recreational Resource, Volume III. The Monocacy River - Analysis of Existing Situation and Recommendations for Protecting the River Resource, W85-00073 1801 6D

**SCHAUERTE, W.**  
Influence of Tetrachloroethylene on the Biota of Aquatic Systems: Toxicity to Phyto- and Zooplankton Species in Compartments of a Natural Pond, W85-02196 1805 5C

Long-term Effects of 1,2,4-Trichlorobenzene on Freshwater Plankton in an Outdoor-Model-Ecosystem, W85-07154 1812 5C

**SCHECHER, W. D.**  
Interactions of Copper and Lead with *Nostoc muscorum*, W85-05040 1810 5B

**SCHEEL, D.**  
Road Salt Contaminates Well, Causes Health Hazard, W85-06611 1812 5B

## AUTHOR INDEX

SCHMIDT, D.

**SCHEIDEL, R. H.**  
Oil Spill Focuses Attention on the Problems of a  
Man-Made Recreational Lake,  
W85-01650 1804 5B

**SCHEIDER, W. A.**  
Modeling the Reacidification Rates of Neutralized Lakes Near Sudbury, Ontario,  
W85-05319 1810 2A

**SCHELL, H.**  
Reaction Mechanisms Involved in the Influence of Alrogenic Organic Matter on Flocculation,  
W85-05452 1810 5F

**SCHELLENBERG, K.**  
Sorption of Chlorinated Phenols by Natural Sediments and Aquifer Materials,  
W85-02344 1805 5B

**SCHELLENBERGER, G.**  
Testing of a Complex Ecological Model for Shallow Water Bodies,  
W85-05603 1810 2H

**SCHELLHAASS, S. M.**  
Depth Distribution of Striped Bass and Other Fish in Lake Texoma (Oklahoma-Texas) During Summer Stratification,  
W85-06408 1812 2H

**SCHELSKE, C. L.**  
Growth Responses of River and Lake Phytoplankton Populations in Lake Michigan Water,  
W85-02638 1805 2H

Variations in *Melosira islandica* Valve Morphology in Lake Ontario Sediments Related to Eutrophication and Silica Depletion,  
W85-07072 1812 2H

**SCHEPERS, J. S.**  
Leaching of Atrazine in the Root Zone of an Alluvial Soil in Nebraska,  
W85-03851 1808 5B

Water Quality from Erosion Control Structures in Nebraska,  
W85-06716 1812 2J

**SCHERRER, J. S.**  
Use of a Dam Break Model to Assess Flooding at Haddam Neck Nuclear Power Plant,  
W85-04998 1810 2E

**SCHERTZ, T. L.**  
Effects of Storm-Water Runoff on Water Quality of the Edwards Aquifer near Austin, Texas,  
W85-03914 1808 5B

**SCHERTZER, W. M.**  
Mass Balance Models of Phosphorus in Sediments and Water,  
W85-02071 1804 2J

**SCHETELIG, K.**  
Design and Construction of the Agus IV Power Cavern. Part One: Geotechnical Investigations,  
W85-01544 1803 8E

**SCHEUCH, G.**  
Pumping Storage Scheme Grand'Maison (France) (Pumpspeicheranlage Grand'Maison (Frankreich)),  
W85-03442 1807 8A

**SCHICK, I. L.**  
Incorporation of Trivalent Chromium into Riverine and Estuarine Colloidal Material,  
W85-03206 1806 2K

**SCHICKEDANZ, P. T.**  
Effect of Irrigation on Warm Season Precipitation in the Southern Great Plains,  
W85-03844 1808 6G

**SCHIECHTL, H.**  
Environmental Aspects for Water Power Plants along the River Lech (Umweltgestaltung bei Wasserkraftanlagen am Lech),  
W85-03252 1807 6G

**SCHIEROW, L.-J.**  
Primer on Nonpoint Pollution,  
W85-05939 1811 5B

**SCHIFF, S. L.**  
New Method for Monitoring Temporal Trends in the Acidity of Fresh Waters,  
W85-07143 1812 5A

**SCHIFFMAN, S.**  
Salinity Pollution from Irrigated Agriculture,  
W85-05945 1811 5B

**SCHILLER, C. G.**  
Musconetcong River Intensive Survey Report 803401,  
W85-00821 1802 5B

**SCHILLER, E. J.**  
Analysis and Computerized Model of the Automatic Hydraulic Ram Pump,  
W85-05456 1810 8C

Stream-Bed Armouring under Known Conditions of Upstream Sediment Input,  
W85-03197 1806 2J

Water and Health in Africa,  
W85-03026 1806 5G

**SCHILLING, W.**  
Effect of Spatial Rainfall Distribution on Sewer Flows,  
W85-01689 1804 2E

Measurements and Estimation in Hydrology - Ideas and Proposals for the Quantification of Errors and Uncertainties (Messungen und Schätzungen in der Hydrologie - Gedanken und Vorschläge zur Quantifizierung der Fehler und Unsicherheiten),  
W85-04805 1809 7B

Real-Time Estimation and Forecasting of Spatially Distributed Areal Rainfall,  
W85-01700 1804 2B

Univariate Versus Multivariate Rainfall Statistics - Problems and Potentials,  
W85-01685 1804 2B

**SCHILPEROORT, T.**  
Optimization of Water Quality Monitoring Networks,  
W85-01406 1803 7A

**SCHIMMEL, S. C.**  
Acute Toxicity, Bioconcentration, and Persistence of AC 222,705, Benthocarb, Chloryrifos, Fenvalerate, Methyl Parathion, and Permethrin in the Estuarine Environment,  
W85-00163 1801 5C

**SCHINDLER, D. W.**  
Ecological Effects of Acid Deposition Upon Peatlands: A Neglected Field in 'Acid-Rain' Research,  
W85-02536 1805 5C

Effects of Lake Acidification on Rates of Organic Matter Decomposition in Sediments,  
W85-02218 1805 5C

New Method for Monitoring Temporal Trends in the Acidity of Fresh Waters,  
W85-07143 1812 5A

**SCHINDLER, Z.**  
Optimization Model for the Economic Control of Reservoir Eutrophication,  
W85-01112 1802 2H

**SCHINER, G. R.**  
Effects of Recharge from Drainage Wells on Quality of Water in the Floridan Aquifer in the Orlando Area, Central Florida,  
W85-00843 1802 5G

**SCHINSKY, A. W.**  
Net Atmospheric Inputs of PCBs to the Ice Cover on Lake Huron,  
W85-01759 1804 5B

**SCHINZINGER, R.**  
Integrity of Interconnected Water Systems,  
W85-00611 1802 8B

**SCHIRMER, W.**  
Increase of Capacity of the Weidatal Dam System (Die Steigerung der Leistungsfähigkeit des Systems der Weidatalsperrern),  
W85-03455 1807 4A

**SCHLEIFF, U.**  
Water Uptake of Barley Roots from Rhizospheric Soil Solutions of Different Salt Concentrations,  
W85-05920 1811 2I

**SCHLENDER, G.**  
Leavenworth, Washington Case: Environmental Concerns with a Water Treatment Plant Failure,  
W85-02723 1806 5B

**SCHLENGER, D. L.**  
Developing Water Utility Cost Estimates Incorporating Spatial Factors,  
W85-06948 1812 6C

**SCHLOESSER, D. W.**  
Distribution of Eurasian Watermilfoil, *Myriophyllum spicatum*, in the St. Clair-Detroit River System in 1978,  
W85-02893 1806 2H

**SCHLOTT, G.**  
Biomass and Phosphorus-Content of the Macrophytes of the NE-Bay of the Lunzer Untersee (Austria) in Relation to Nutrient-Rich Inflows and to the Sediment (Biomasse und Phosphorgehalt der Makrophyten in der NO-Bucht des Lunzer Untersees (Austria) in Abhängigkeit von nährstoffreichen Zuflüssen und vom Sediment),  
W85-02527 1805 2H

**SCHLOTT-IDL, K.**  
Trophic Relationships Between Bacteria and Protozoa in the Hypolimnion of a Meromictic Mesotrophic Lake,  
W85-05864 1811 2H

**SCHLOTZHAUER, P. F.**  
Dynamics of Pollutant Photoreactions in the Hydrosphere,  
W85-03281 1807 5B

**SCHLOZ, W.**  
Hydrogeological Study With Environmental Isotopes of Karst Waters of the Eastern Swabian Alb and the Danube Ried (Hydrogeologische Studie mit Umweltisotopen an Karstwassern der Östlichen Schwäbischen Alb und des Donaurieds (Baden-Württemberg und angrenzendes Bayern)),  
W85-00765 1802 2F

**SCHMALAND, G.**  
Leaching of Several Insecticides from an Agriculturally Used Soil in Lysimeter Studies (Auswaschung einiger Insektizide aus landwirtschaftlich genutzten Böden im Lysimeterversuch),  
W85-06259 1812 5B

**SCHMELZLE, P. M.**  
Pressure Rises Due to Unsteady Flow, Especially in High-Lift Navigation Locks (Druckerhöhungen aufgrund instationärer Stromungsvorgänge, insbesondere in Schiffsschleusen mit grossen Stufenhöhen),  
W85-04631 1809 8B

**SCHMIDT, C.**  
Process Design Manual for Land Application of Municipal Sludge,  
W85-05127 1810 5D

**SCHMIDT, D.**  
Increase of Capacity of the Weidatal Dam System (Die Steigerung der Leistungsfähigkeit des Systems der Weidatalsperrern),  
W85-03455 1807 4A

## AUTHOR INDEX

**SCHMIDT, E.**

**SCHMIDT, E.**  
Minicomputer Program for Water-Level Calculation and Forecasting and Its Testing on the Oder Between Eisenhuttenstadt and Kietz (Kleinrechnerprogramm zur Wasserstandsberchnung und -vorhersage und Dessen Erprobung am Oderabschnitt Eisenhuttenstadt-Kietz), W85-03518 1807 2E

**SCHMIDT, H.**  
Influence of Different Levels of Soil Moisture as Well as of Nitrogen and Potassium Fertilizer on the Yield and Quality of Potatoes in Maturity Group IV. Second Report: Growth, Yield, and Yield Components (Der Einfluss Unterschiedlicher Bodenfeuchtestufen sowie Stickstoff- und Kaliumdungungsstufen auf Ertrag und Qualität von Kartoffeln der Reifegruppe IV), W85-06523 1812 2I

**SCHMIDT, M.**  
Environmental Influences of Dams Constructed During the Past 300 Years in the Western 'Harz' (Die Umwelteinflüsse von 300 Jahren Talsperrenbau im Westharz), W85-03250 1807 6G

**SCHMIDT, R. E.**  
Fishes of an Urban Stream; The Bronx River, New York, W85-00935 1802 2H

**SCHMIDT, R. L.**  
Fate of Corrosion Products Released from Stainless Steel in Marine Sediments and Seawater; Part 2: Sequim Bay Clayey Silt, W85-06981 1812 5B

**SCHMIDT, S.**  
Growth of Phenol-Mineralizing Microorganisms in Fresh Water, W85-04256 1808 2H

**SCHMIDT, S. D.**  
Evaluation of Giardia Cyst Removal via Portable Water Filtration Devices, W85-02244 1805 5F

**SCHMIDTKE, N. N. W.**  
Evaluation of Wastewater Disinfection Alternatives, W85-06963 1812 5D

**SCHMITT, C. J.**  
Bioavailability of Pb and Zn from Mine Tailings as Indicated by Erythrocyte delta-Aminolevulinic Acid Dehydratase (ALA-D) Activity in Suckers (Pisces: Catostomidae), W85-01918 1804 5A

National Pesticides Monitoring Program: Residues of Organochlorine Chemicals in Freshwater Fish, 1980-1981, W85-05111 1810 5B

**SCHMITT, T. G.**  
Comparison of Dynamic Flow Routing Methods for Urban Drainage Systems (Vergleich hydrodynamischer Berechnungsansätze zur Abfluberleitung in Kanalnetzen), W85-04627 1809 8B

**SCHMITZ, W.**  
Water Temperatures of the Thymalus-Zone of Middle European Running Waters in Summer (Die Sommerlichen Wassertemperaturen der Aschenzone Mitteleuropäischer Fließgewässer), W85-00773 1802 2H

**SCHNABEL, R. R.**  
Calculation of Internodal Conductances for Unsaturated Flow Simulations: A Comparison, W85-02872 1806 2G

**SCHNEIDER, J. K.**  
Analytical Fractionation of Dissolved Organic Matter in Water Using On-Line Carbon Detection, W85-04298 1808 2K

**SCHNEIDER, K.**

Performance of an Anaerobic Filter for Purification and Methane Production from Waste Water of a Sugar Refinery, W85-01605 1803 5D

**SCHNEIDER, P. A. JR.**

Shallow Ground Water in the Boulder-Fort Collins-Greeley Area, Front Range Urban Corridor, Colorado, 1975-1977, W85-03941 1808 2F

**SCHNEIDER, R.**

Trace Metal and PCB Content of Mussels (*Mytilus edulis*) from the Southwestern Baltic Sea, W85-04902 1809 5B

**SCHNEIDER, R. P.**

Stored Available Soil Water and the Fallow/Recrop Decision-Critical Level Approach, W85-02874 1806 2I

**SCHNEITER, R. W.**

Design Manual, Municipal Wastewater Stabilization Ponds, W85-05133 1810 5D

Groundwater Contamination - Part 3: Remedial Action, W85-06453 1812 5G

Transport and Transformations of Organic Chemicals, W85-06451 1812 5B

**SCHNEPPER, D.**

Evaluation of Wastes from the East St. Louis Water Treatment Plant and Their Impact on the Mississippi River, W85-06343 1812 5C

**SCHNIER, C.**

Trace Metal and PCB Content of Mussels (*Mytilus edulis*) from the Southwestern Baltic Sea, W85-04902 1809 5B

**SCHNITTER, N.**

Monitoring of Dams (Die Laufende Überwachung von Talsperren), W85-01270 1803 4A

**SCHNITTER, N. J.**

Evolution of Buttress Dams, Part One, W85-01546 1803 8A

Evolution of Buttress Dams, Part Two, W85-01549 1803 8A

**SCHNOOR, J. L.**

Modeling Impacts of Acid Precipitation for Northeastern Minnesota, W85-05320 1810 2K

**SCHOCK, M. R.**

Water Reuse Through Groundwater Recharge in Northeastern Illinois, W85-06941 1812 5D

**SCHOCKLEY, O. B.**

New Approach to Canal and Waterway Maintenance, W85-03274 1807 4A

**SCHOELL, M.**

Carbon and Hydrogen Isotopic Composition of Bacterial Methane in a Shallow Freshwater Lake, W85-02786 1806 2H

**SCHOEMAN, F. R.**

Diatoms of the Jukseki-Crocodile River System (Transvaal, Republic of South Africa): A Preliminary Check-List, W85-04814 1809 2H

Limnological Studies on the Pretoria Salt Pan, a Hypersaline Maar Lake, W85-02478 1805 2H

**SCHOENBERG, M. E.**

Water Levels and Water-Level Changes in the Prairie du Chien-Jordan and Mount Simon-Hinckley Aquifers, Twin Cities Metropolitan Area, Minnesota, 1971-80, W85-03946 1808 2F

**SCHOETTGER, R. A.**

Overview of the US-USSR Joint Agreement on Environmental Protection Related to Prevention of Water Pollution, W85-02881 1806 6E

Soviet-American Cooperation in the Field of Protecting Water from Pollution, W85-02882 1806 6E

**SCHOETTLE, A. W.**

Effects of Low Concentrations of O<sub>3</sub>, Leaf Age and Water Stress on Leaf Diffusive Conductance and Water Use Efficiency in Soybean, W85-06105 1811 2I

**SCHOFER, G.**

Construction of Rationalization Equipment at the Rostock Water-Supply and Wastewater-treatment Facility (Rationalisierungsmittelbau im VEB Wasserversorgung und Abwasserbehandlung Rostock), W85-01877 1804 5F

**SCHOFIELD, C. C.**

Rocky Mountain Acidification Study, W85-06359 1812 5C

**SCHOFIELD, C. L.**

Mercury Levels in Brook Trout (*Salvelinus fontinalis*) from Selected Acid and Limed Adirondack Lakes, W85-00204 1801 5C

**SCHOLER, D.**

Observations on and Results of Rational Energy Use at the Neubrandenburg Water and Wastewater Treatment Facilities (Erfahrungen und Ergebnisse bei der Rationalen Energieanwendung im VEB Wasserversorgung und Abwasserbehandlung Neubrandenburg), W85-03514 1807 5D

**SCHOLL, J. F.**

Spatial Mapping of Conductive Ground Water Contamination with Electromagnetic Induction, W85-03177 1806 5A

**SCHOLZ, A.**

Seasonal Distribution and Aggregation Behavior of Goldfish (*Carassius auratus* L.) in Eastern Washington Lakes: New Technology for Control of Goldfish Populations Based on Their Behavioral Ecology, W85-00610 1802 8I

**SCHOLZE, C.**

Observations from the Test Operation of an Ion-exchange Facility for Nitrate Removal in Drinking-water Treatment (Erfahrungen aus dem Erprobungsbetrieb einer Ionenaustauscheranlage zur Nitratelimination in der Trinkwasseraufbereitung), W85-01974 1804 5F

**SCHOOR, W. P.**

Effects of Carcinogens, Mutagens, and Teratogens on Non-Human Species (Aquatic Animals), W85-04230 1808 5C

Effects of Carcinogens, Mutagens, and Teratogens on Nonhuman Species (Aquatic Animals), W85-05128 1810 5C

**SCHRAMM, H. L.**

Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 5, Fish Studies: Pilot Report, W85-06943 1812 8I

**SCHRANDT, J.**

Environmental Water Law, W85-01252 1803 6E

## AUTHOR INDEX

SCHULZE, H.

**SCHRANZ, H.**  
Design and Construction of the Agus IV Power Cavern, Part Three: Control of Behavior, W85-02683 1805 8A

**SCHRECK, C. B.**  
Impact of Small-Scale Dams on Fishes of the Willamette River, Oregon and an Evaluation of Fish Habitat Models, W85-06321 1812 6G

**SCHREDESEKER, F.**  
Stripping Test for Estimation of the Removal of Organic Substances by Aeration (Stripbarkeits-test zur Abschätzung der Entfernbarekeit Organischer Substanzen aus dem Wasser durch Belüften), W85-03593 1807 5A

**SCHREIBER, D. R.**  
Toxicity of Copper to the Marine Bacterium *Vibrio alginolyticus*, W85-05743 1810 5C

**SCHREIBER, J. C.**  
Gross Alpha and Beta Radioactivities Associated with Aquatic Environments of Upper-East Tennessee Impacted by Industrial and Mining Activities, W85-04367 1808 5B

**SCHREIBER, J. D.**  
Leaching of Nitrogen, Phosphorus, and Organic Carbon from Wheat Straw Residues: I. Rainfall Intensity, W85-06723 1812 5B

Leaching of Nitrogen, Phosphorus, and Organic Carbon From Wheat Straw Residues: II. Loading Rate, W85-06724 1812 5B

**SCHREINER, L. C.**  
Probable Maximum Precipitation Estimates - United States Between the Continental Divide and the 103rd Meridian, W85-04226 1808 2B

**SCHREINER, S. P.**  
Particulate Matter Distribution and Heating Patterns in a Small Pond, W85-02610 1805 2H

**SCHRIMPFF, E.**  
Organic Micropollutants' Balances in Watersheds of Northeastern Bavaria, W85-03285 1807 5B

**SCHRODER, L. J.**  
Comparison of Daily and Weekly Precipitation Sampling Efficiencies Using Automatic Collectors, W85-05694 1810 7B

Validation of an Automated Fluorescein Method for Determining Bromide in Water, W85-06737 1812 5A

**SCHRODER, M.**  
Measurements of Canopy Interception at the St. Arnold Lysimeter Station/Munsterland (Die Interzeptionsmessungen an der Grosslysimeteranlage St. Arnold), W85-06158 1811 2I

**SCHRODER, U.**  
Floods of the Rhine in April and May 1983 (Die Rhein-Hochwasser vom April und Mai 1983), W85-00968 1802 2E

**SCHRODER, W.**  
Coprecipitation of Microalgal Biomass with Calcium and Phosphate Ions, W85-04498 1809 5F

Denudation and Reservoir Sedimentation in Middle Europe (Feststoffabtrag und Stauraumverlandung in Mitteleuropa), W85-03439 1807 2J

Sediment Transport Measurements of Two Northern German Creeks (Messungen des Feststofftransports von zwei Norddeutschen Bachen), W85-03448 1807 2J

**SCHROEDER, E. D.**  
Rainfall and Overland Flow Performance, W85-00721 1802 5D

**SCHROEDER, P. R.**  
Chemical Clarification Methods for Confined Dredged Material Disposal, W85-06914 1812 5D

Coagulation and Restabilization of Particulate, Macromolecular and Protected Organic Aquasols by Aluminum (III), W85-02105 1804 5F

**SCHROEDER, R. A.**  
Polychlorinated Biphenyl Concentrations in the Hudson River Water and Treated Drinking Water at Waterford, N.Y., W85-00835 1802 5F

Trends in Polychlorinated Biphenyl Concentrations in Hudson River Water Five Years after Elimination of Point Sources, W85-00856 1802 5B

**SCHROEDER, S. A.**  
Interrill Erosion as an Index of Mined Land Soil Erodibility, W85-03370 1807 2J

Soil Water Variation in Spoil and Undisturbed Sites in North Dakota, W85-00757 1802 2G

**SCHROEDER, W. H.**  
Sludge Incineration and Precipitant Recovery, Vol. IV: Pilot Scale Multiple-Hearth Furnace Investigations, W85-06992 1812 5E

**SCHROER, W.**  
Determination of Organohalogenic Acids in Water Samples (Bestimmung Halogenorganischer Säuren in Wasserproben), W85-01663 1804 5A

**SCHROTER, R.**  
Economical Water Use in the Zielitz Potash Plant (Wirtschaftliche Wassernutzung im VEB Kalibetrieb Zielitz), W85-03467 1807 3E

**SCHUBAUER, J. P.**  
Above- and Belowground Emergent Macrophyte Production and Turnover in a Coastal Marsh Ecosystem, Georgia, W85-02791 1806 2L

Static and Dynamic Aspects of Nitrogen Cycling in the Salt Marsh Graminoid *Spartina alterniflora*, W85-00257 1801 2L

**SCHUELEIN, J. W.**  
Oklahoma's Reach to the Clouds, W85-04208 1808 3B

**SCHUETT, A. W.**  
Groundwater Seepage and the Water Balance of a Closed, Freshwater, Coastal Dune Lake: Lake Windermere, Jervis Bay, W85-04698 1809 2F

**SCHUETTE, B.**  
Integration of a Reverse Osmosis Installation in the Fully Automated Operation of a Rural Water Supply Company, W85-00253 1801 5F

**SCHUH, W. M.**  
Evaluation of Simplified Methods for Determining Unsaturated Hydraulic Conductivity of Layered Soils, W85-02319 1805 2G

**SCHULHOF, P.**  
2001 ... The Future of Water Treatment (2001 ... L'Avenir du Traitement de l'Eau), W85-02017 1804 6A

**SCHULIGER, W. G.**  
Treatment of Contaminated Groundwater with Granular Activated Carbon, W85-00128 1801 5F

Water and Wastewater Survey for the Brazilian Merck, Sharp and Dohme Chemical and Pharmaceutical Plant, W85-05251 1810 5D

**SCHULTS, D. W.**  
Toxicity of Sewage Sludge to *Rheophoxynius abronius*, a Marine Benthic Amphipod, W85-02203 1805 5C

**SCHULTZ, B.**  
Determination of 4-Aminophenol in Water by High-Performance Liquid Chromatography with Fluorescence Detection, W85-01746 1804 5A

**SCHULTZ, D. W.**  
Assessment of Fluid Control Liner Installation Procedures, W85-05250 1810 5D

**SCHULTZ, H.**  
Response of the Coastal Boundary Layer to Wind and Waves: Analysis of an Experiment in Lake Erie, W85-02960 1806 2H

**SCHULTZ, J. E.**  
Water Use Efficiency of Wheat in a Mediterranean-Type Environment. I The Relation Between Yield, Water Use and Climate, W85-06099 1811 3F

Water Use Efficiency of Wheat in a Mediterranean-Type Environment. II Some Limitations to Efficiency, W85-06100 1811 2I

**SCHULTZ, J. R.**  
Achieving Wastewater Compliance with Reduced Grant Support, W85-02582 1805 5D

**SCHULZ, C. R.**  
Practical Water Treatment for Communities in Developing Countries, W85-01983 1804 5F

**SCHULZE, E.**  
Some Problems in the Application of the MPN Method for the Quantitative Determination of *Salmonella* (Einige Probleme bei der Anwendung des MPN-Verfahrens zur quantitativen Salmonellenbestimmung), W85-06650 1812 5A

**SCHULZE, E. D.**  
Effect of Different Growing Conditions on Water Relations Parameters of Leaf Epidermal Cells of *Tradescantia virginiana* L., W85-00208 1801 2I

Responses of Stomata and Leaf Gas Exchange to Vapour Pressure Deficits and Soil Water Content, I. Species Comparisons at High Soil Water Contents, W85-02561 1805 2D

**SCHULZE, G.**  
Determination of Nitrate in Drinking Water by Means of Ion Chromatography (Nitratbestimmung im Trinkwasser mit Hilfe der Ionen-Chromatographie), W85-01608 1803 5A

**SCHULZE, H.**  
Mode of Operation of the New Water-Use Charges and Industrial Prices That Became Ef-

## AUTHOR INDEX

**SCHULZE, H.**

fective January 1, 1984 in the Water-Management Sector (Zur Wirkungsweise der ab 1. Januar 1984 geltenden neuen Wassernutzungsentgelte und Industriepreise der Wasserversorgung), W85-03465	1807 6C	ten des Niederschlags und der Repräsentativität von Niederschlagsmeßnetzen), W85-03519	1807 2B	<b>SCHWEIGER, K. H.</b> Economic Evaluation of Measures for Conserving and Improving Water Quality (Ökonomische Beurteilung von Massnahmen zum Schutz und zur Sanierung der Gewässer), W85-03525	1807 6B
<b>SCHUMACHER, P. D.</b> Operating Experience with an Integrated Power Plant Wastewater Treatment System, W85-05269	1810 5D	<b>SCHWARZ, R.</b> Flood Information Systems: Needs and Improvements in Eastern India, W85-00974	1802 6E	<b>SCHWEINBERGER, M.</b> Observations on and Results of Rational Energy Use at the Neubrandenburg Water and Wastewater Treatment Facilities (Erfahrungen und Ergebnisse bei der Rationalen Energieanwendung im VEB Wasserversorgung und Abwasserbehandlung Neubrandenburg), W85-03514	1807 5D
<b>SCHUMAN, G. E.</b> Soil Erosion Potential of Reclaimed Mined Lands, W85-03398	1807 2J	<b>SCHWARTZ, E. B.</b> Water as an Article of Commerce: State Embargoes Spring a Leak Under Sporhase v. Nebraska, W85-05915	1811 6E	<b>SCHWEITZER, B.</b> Rainfall Fluctuations in India and Sri Lanka and Large-Scale Rainfall Anomalies, W85-05093	1810 2B
<b>SCHUMAN, G. O.</b> Water Temperatures of the Thymallus-Zone of Middle European Running Waters in Summer (Die Sommerlichen Wassertemperaturen der Aschenzone Mitteleuropäischer Fließgewässer), W85-00773	1802 2H	<b>SCHWARTZ, F. K.</b> Probable Maximum Precipitation and Snowmelt Criteria for Southeast Alaska, W85-00056	1801 2C	<b>SCHWEITZER, G. E.</b> Assessing Hazardous Waste Problems, W85-03054	1806 5A
<b>SCHUMANN, W.</b> Problems in Reconstructing Gravity Dams - Stress-Deformation Analysis for an Added Concrete Coating (Probleme der Rekonstruktion von Gewichtsstaumauern-Spannungs-Verformungsanalyse für einen Vorsatzbetonmantel), W85-03452	1807 8A	<b>SCHWARTZ, F. W.</b> Analysis of the Influence of Fracture Geometry on Mass Transport in Fractured Media, W85-02666	1805 2F	<b>SCHWEITZER, G. W.</b> Treating and Monitoring Corrosion and Scale in Distribution Systems, W85-00551	1802 5F
<b>SCHUSTER, H.</b> Effects of Copper Chelate on Photosynthesis and Some Enzyme Activities of Elodea canadensis, W85-01083	1802 5C	<b>SCHWARTZ-FULTON, J.</b> Biological Health Risks Associated with the Composting of Wastewater Treatment Plant Sludge, W85-04291	1808 5E	<b>SCHWEIZER, A.</b> Anion Chromatography of Hydrogen Carbonate, Chloride and Sulphate in Mineral Waters with Comparisons of Methods (Anionen-Chromatographie von Hydrogencarbonat, Chlorid und Sulfat in Mineralwässern mit Methoden vergleichen), W85-06757	1812 5A
<b>SCHUSTER, H.-J.</b> Rational Slope Stabilization by Means of a New Type of Concrete Plate (Rationelle Böschungsbefestigungen Durch Neuartige Betonplatten), W85-03453	1807 8F	<b>SCHWARTZ, S.</b> Increasing the Rate of Degradation in Wastewater Pond Facilities with Anaerobic Preliminary Treatment Basins (Zur Steigerung der Abbauteile in Abwasserteichanlagen mit anaerobem Vorbecken), W85-03522	1807 5D	<b>SCHWEYEN, T. H.</b> Sedimentology and Geochemistry of Saline Lakes of the Great Plains, W85-05760	1810 2H
<b>SCHUURKES, J. A. A. R.</b> Impact of Acidification and Eutrophication on Macrophyte Communities in Soft Waters. II. Experimental Studies, W85-01889	1804 5C	<b>SCHWARZENBACH, R. P.</b> Analytical Fractionation of Dissolved Organic Matter in Water Using On-Line Carbon Detection, W85-04298	1808 2K	<b>SCHWINDT, F. J.</b> Hydrogeochemical Interaction Between a Municipal Waste Stabilization Lagoon and a Shallow Aquifer, W85-03154	1806 5G
<b>SCHUYLER, J.</b> Effects of Aqueous Chemical Environments on Crack Propagation in Quartz, W85-00723	1802 8E	<b>SCHWARZER, R. P.</b> Groundwater Contamination by Volatile Halogenated Alkanes: Abiotic Formation of Volatile Sulfur Compounds under Anaerobic Conditions, W85-06148	1811 5B	<b>SCIFRES, C. J.</b> Soil Water and Temperature Response to Prescribed Burning, W85-04071	1808 2G
<b>SCHWAIB, D. J.</b> Response of the Coastal Boundary Layer to Wind and Waves: Analysis of an Experiment in Lake Erie, W85-02960	1806 2H	<b>SCHWAB, H.</b> Influence of pH and Ionic Strength on the Aqueous-Nonaqueous Distribution of Chlorinated Phenols, W85-04803	1809 5B	<b>SCOTT, A. G.</b> Modelling Concepts for Hydrophobic Organic Pollutants in Lakes, W85-00264	1801 5B
<b>SCHWAIB, H.</b> Analysis of Control Measures in the Finstertal Rockfill Dam (Analyse der Kontrollmessungen im Staumauer Finstertal), W85-03262	1807 8A	<b>SCHWARZER, R. R.</b> Sorption of Chlorinated Phenols by Natural Sediments and Aquifer Materials, W85-02344	1805 5B	<b>SCOTT, B. C.</b> Preliminary Calculations of Average Storm Duration and Seasonal Precipitation Rates for the Northeast Sector of the United States, W85-00242	1801 2B
<b>SCHWAIB, R. E.</b> Computer Control of a Small Wastewater Treatment Plant, W85-05297	1810 5D	<b>SCHWEDT, G.</b> Analysis of Aqueous Sediments for Heavy Metals, W85-01742	1804 5B	<b>SCOTT, D. D.</b> Determination of Minimum Discharge for O+ Brown Trout ( <i>Salmo trutta L.</i> ) Using a Velocity Response, W85-02505	1805 6G
<b>SCHWABE, G. H.</b> Inland Waters and Human Culture (Binnengewässer und Kultur), W85-00774	1802 2A	<b>SCHWEITZER, H. M.</b> Anion Chromatography of Hydrogen Carbonate, Chloride and Sulphate in Mineral Waters with Comparisons of Methods (Anionen-Chromatographie von Hydrogencarbonat, Chlorid und Sulfat in Mineralwässern mit Methoden vergleichen), W85-06757	1812 5A	<b>SCOTT, D. F.</b> Improving Wetland Policy Through Amelioration of Adverse Effects on Local Economies, W85-03134	1806 6B
<b>SCHWALENBERG, R.</b> Electronic dp Applications in the Saale-Werra Water District (Die Anwendung der EDV in der Wasserwirtschaftsdirektion Saale-Werra), W85-03517	1807 7C	<b>SCHWEITZER, H. M.</b> Interorganizational Relations and Decision Making Among Section 208 Water Quality Management Planning Agencies, W85-06305	1812 6E	<b>SCOTT, F. R.</b> Alfalfa Growth and Soil Oxygen Diffusion as Influenced by Depth to Water Table, W85-02877	1806 2G
<b>SCHWANITZ, D.</b> Calculation of Areal Precipitation Values and the Representativeness of Precipitation Measuring Networks (Zur Berechnung von Gebietswerte-				<b>SCOTT, H. D.</b> Microwave Measurements of Moisture Distributions in the Upper Soil Profile, W85-02160	1804 2G

## AUTHOR INDEX

SEIP, H. M.

Relationships among Oxygen Flux, Soil Water Tension, and Aeration Porosity in a Drying Soil Profile, W85-04956	1809 2G	Overview of On-Site Wastewater Treatment and Disposal, W85-05196	1810 5D	SEIBERT, D. L. Biogeochemical Fate and Toxicity of Mercury in Controlled Experimental Ecosystems, W85-00651	1802 5B
SCOTT, J. A. Role of Benthic Films in the Oxygen Balance in an East Devon River, W85-02426	1805 5C	Septic Tank Design, W85-05202	1810 5D	SEIBERT, G. Significance of Natural and Anthropogenic Sediment Inputs to the Saguenay Fjord, Quebec, W85-01053	1802 2J
SCOTT, J. C. Oklahoma: Summary of Activities of the U.S. Geological Survey, Water Resources Division, Oklahoma District, 1983, W85-03922	1808 10C	SEALE, R. D. Subsidy and Tax Effects of Controlling Stream Sedimentation in South Carolina, W85-05966	1811 4D	SEIDEL, H. P. Consideration of Scenic and Ecological Aspects during Construction of the Rhine-Main-Danube-Waterway (Landschaftsgestalterische und ökologische Fragen beim Bau der Rhein-Main-Donau-Wasserstrasse), W85-03251	1807 6A
SCOTT, K. R. Four-Tank Recirculation System with a Hydrocyclone Prefilter and a Single Water Reconditioning Unit, W85-03637	1807 5D	SEAMANS, T. Effects of Long-Term Artificial Flooding on a Northern Bottomland Hardwood Forest Community, W85-00291	1801 6G	SEIDEL, K. M. Isolation of Enteroviruses from Water, Suspended Solids, and Sediments from Galveston Bay: Survival of Poliovirus and Rotavirus Adsorbed to Sediments, W85-02599	1805 5A
SCOTT, W. C. Continuing Saga of Pyramid Lake: Nevada v. United States, W85-06537	1812 6E	SEASER, J. R. Ecosystem Definition and Community Structure of the Macrofauna of the NEMP Monitoring Station at Pigeon Hill in the Gulf of Maine, W85-05580	1810 2L	SEIDLER, R. J. Aeromonas sobria in Chlorinated Drinking Water Supplies, W85-02187	1805 5F
SCOTT, W. S. Factors Influencing the Behaviour of De-Icing Salts in an Urban Flood Control Reservoir, W85-04584	1809 5B	SEBAUGH, J. L. Stream-Watershed Relations in the Missouri Ozark Plateau Province, W85-06620	1812 6G	Association of Metal Tolerance with Multiple Antibiotic Resistance of Bacteria Isolated from Drinking Water, W85-02133	1804 5F
SCOTT-WASILK, J. Occurrence of the Asiatic Clam Corbicula fluminea in the Maumee River and Western Lake Erie, W85-01753	1804 5C	SEDBERRY, F. C. Water Resources Data, Alabama, Water Year 1982, W85-01939	1804 2E	Legionella Incidence and Density in Potable Drinking Water Supplies, W85-00101	1801 5B
SCOTTER, D. R. Evapotranspiration from Pasture: A Comparison of Lysimeter and Bowen Ratio Measurements with Priestley-Taylor Estimates, W85-06182	1812 2D	SEDELL, J. R. Importance of Streamside Forests to Large Rivers: The Isolation of the Willamette River, Oregon, U.S.A., from its Floodplain by Snagging and Streamside Forest Removal, W85-05663	1810 6G	SEIFERT, S. Problems in Reconstructing Gravity Dams - Stress-Deformation Analysis for an Added Concrete Coating (Probleme der Rekonstruktion von Gewichtsstaumauern-Spannungs-Verformungsanalyse für einen Vorsatzbetonmantel), W85-03452	1807 8A
SCOULLOS, M. Particulate Pollution Monitoring in the Elefsis Gulf: The Role of Mineral Magnetic Studies, W85-01486	1803 5A	STREAM Ecosystem Theory, W85-05662	1810 2E	SEIKE, Y. Quantitative Analysis of Phosphorus Cycle in the Shallow Brackish Lake Nakanoumi, Japan, W85-00761	1802 2H
Trace Metals in a Tidal Mediterranean Embayment, W85-00802	1802 5B	SEDLACEK, M. Trends in the Intensification of Sludge Management in Wastewater-Treatment Facilities of the CSSR (Trends bei der Intensivierung der Schlammwirtschaft in Klaranlagen der CSSR), W85-03462	1807 5D	Seasonal and Areal Features of the Lagoonal Environment in Lake Nakanoumi, a Shallow Coastal Lagoon in Japan, W85-01476	1803 6G
SCRIVENER, J. C. Logging Impacts and Some Mechanisms that Determine the Size of Spring and Summer Populations of Coho Salmon Fry ( <i>Oncorhynchus kisutch</i> ) in Carnation Creek, British Columbia, W85-01919	1804 5C	SEELY, E. H. SEDLAB: The Hydrology/Sediment Transport Model of the USDA Sedimentation Laboratory, W85-05341	1810 2A	SEILER, H. Antibacterial Effects on Predominant Taxa in the Activated Sludge System of a Chemical Combine (Die Hemmstoffresistenz dominierender Bakteriengruppen in der Belebtschlamm-Anlage eines Chemiewerks), W85-02738	1806 5D
SCUDLARK, J. R. Wet Deposition of Trace Metals to the Western Atlantic Ocean at the Mid-Atlantic Coast and on Bermuda, W85-04504	1809 5B	SEEWALD, H. Simultaneous Determination of Cl-, Br- and I- in Water Samples by Isotope Dilution Mass Spectrometry (Gleichzeitige Bestimmung von Cl-, Br- und I- in Wassern durch massenspektrometrische Isotopenverdünnungsanalyse), W85-06759	1812 5A	SEILER, R. L. Reconnaissance of the Shallow-Unconfined Aquifer in Salt Lake Valley, Utah, W85-03892	1808 2F
SCULLION, J. Effects of Artificial Freshets on Substratum Composition, Benthic Invertebrate Fauna and Invertebrate Drift in Two Impounded Rivers in Mid-Wales, W85-01002	1802 2E	SEFE, F. T. Variation of Model Parameter Values and Sensitivity with Type of Objective Function, W85-00180	1801 2A	SEILER, R. W. Production and Consumption of Carbon Monoxide in a Eutrophic Lake, W85-01585	1803 2H
SCULLY, F. E. JR. Derivatization of Organic and Inorganic N-Chloramines for High-Performance Liquid Chromatographic Analysis of Chlorinated Water, W85-02807	1806 5A	SEGERS, J. H. L. Morphological Changes in the Gill of Carp ( <i>Cyprinus carpio L.</i> ) Exposed to Acutely Toxic Concentrations of Methyl Bromide, W85-02916	1806 5C	Production and Consumption of Hydrogen in a Eutrophic Lake, W85-00104	1801 2H
Organic N-Chloramines: Chemistry and Toxicology, W85-01210	1803 5F	SEGERSTROM, U. Annual Sediment Accumulation and Land Use History; Investigations of Varved Lake Sediments, W85-05627	1810 2J	SEILS, C. Preconcentration of Submicrogram Amounts of Metals from Natural Waters for X-ray Energy Spectrometric Determination Using Pyrrolidine-carboxylic Acid, W85-04621	1809 5A
SEABLOOM, R. W. Ongoing and Recent on On-Site Treatment and Disposal Methods in the U.S.A., W85-05222	1810 5D	SEGOVIA, A. V. Erosion and Sedimentation Chronology of Three Watersheds in Maryland, W85-01835	1804 2J	SEIP, H. M. Relationship between Fish Populations and pH for Lakes in Southermost Norway, W85-00550	1802 5C

## AUTHOR INDEX

**SEIP, K. L.**

**SEIP, K. L.**  
Impact of Nutrient Load on Total Biomass and Species Succession in Lake Suwa, Japan, W85-04565 1809 5C

**SEISUMA, Z. K. A.**  
Method of Performing Ecotoxicological Experiments in Situ (Metodika Postanovki Ekotoksikologicheskogo Eksperimenta in Situ), W85-06464 1812 2L

**SEKNDAR, M. A.**  
Entrance Resistance of Enveloped Drainage Pipes, W85-06682 1812 8B

**SEKERKA, I.**  
Determination of Alkalinity and Acidity of Water by Conductometric Acid-Base Titration, W85-02734 1806 5A

**SEKI, H.**  
Copper Effect on Dynamics of Organic Materials in Marine Controlled Ecosystems, W85-00872 1802 5C

Microbial Contribution to the Mesotrophic Ecosystem of the Campbell River Estuary During Summer, W85-04673 1809 2L

**SEKSARIA, R.**  
Computer Control of a Small Wastewater Treatment Plant, W85-05297 1810 5D

**SELBY, D. A.**  
Effects of Subacute Cadmium Exposure on a Hardwater Mountain Stream Microcosm, W85-07123 1812 5C

**SELEDKIN, A. A.**  
Discontinuous Wave on Stretches of an Abrupt Expansion of a Canal, W85-04424 1809 8B

**SELETSKII, YU. B.**  
Hydrogen and Oxygen Isotopes in Revealing the Nature of Hydrochemical Inversion of Deep Groundwaters, W85-04096 1808 2F

**SELEZNEV, S. V.**  
Characteristics of the Operation of the Mechanical Equipment of the Dam of the Krasnoyarsk-2 Hydroelectric Station, W85-00438 1801 8C

**SELIG, E. I.**  
Insurance against Liability for Environmental Pollution - Coverages and Limitations, W85-03711 1807 5C

Legal Means of Protecting Aquifers, W85-00699 1802 6E

**SELIGER, H. H.**  
Catastrophic Anoxia in the Chesapeake Bay in 1984, W85-06159 1811 2L

**SELIM, H. M.**  
Equivalence of Two Conceptual Models for Describing Ion Exchange During Transport Through an Aggregated Oxisol, W85-02368 1805 2G

**SELISKAR, D. M.**  
Root and Rhizome Distribution as an Indicator of Upper Salt Marsh Wetland Limits, W85-01000 1802 2L

**SELKIRK, W. T.**  
Analysis, by Bioassay, of the Factors which Limit Algal Growth in the P. K. le Roux Impoundment, Orange River, South Africa, W85-01478 1803 2H

**SELMER-OLSEN, A. R.**  
Estimated Pollution Loadings from Norwegian Fish Farms. I. Investigations 1978-1979, W85-00114 1801 5B

**SEMENENOK, S. N.**  
Hydraulicking at the Construction of the Zagorsk Pumped-Storage Station, W85-00442 1801 8H

**SEMENKOV, V. M.**  
Ecological Aspects of the Design and Operation of Conduits of Hydroelectric Schemes, W85-05986 1811 5G

**SEMENOV, V. K.**  
Seepage in the Foundation of the Krasnoyarsk Dam, W85-00488 1801 8A

**SEMMLER, J.**  
Estimation of Acidity in Rainfall by Electrical Conductivity, W85-05520 1810 5A

**SEN, A. K.**  
Studies of Toxic Effects of Hg(II) on *Pistia stratiotes*, W85-06372 1812 5C

**SEN, D. N.**  
Survival Adaptations of Three *Euphorbia* spp. in Arid Ecosystem, W85-06371 1812 2I

**SEN, Z.**  
Adaptive Pumping Test Analysis, W85-03753 1807 2F

Type Curves for Large-Diameter Wells Near Barriers, W85-00310 1801 2F

**SENANAYAKE, F. R.**  
Conservation of Freshwater Fishes of Sri Lanka, W85-00118 1801 5G

**SENARATNE, A.**  
Distribution of Nitrates in the Potable Waters of Sri Lanka, W85-02015 1804 5B

Geochemistry of Well Water and Cardiovascular Diseases in Sri Lanka, W85-01674 1804 5C

**SENARATNE, A. U.**  
Costs of Anaerobic Processes in the Pulp and Paper Industry, W85-07017 1812 5D

**SENDACZ, S.**  
Further Studies on the Zooplankton Community of a Eutrophic Reservoir in Southern Brazil, W85-05648 1810 2H

**SENDIL, U.**  
Evapotranspiration under Extremely Arid Climates, W85-02447 1805 2D

**SENGER, R. K.**  
Automatic Generation of Flow Nets with Conventional Ground-Water Modeling Algorithms, W85-06823 1812 2F

**SENGUPTA, S.**  
Heavy Metal Migration in Soil-Leachate Systems, W85-01868 1804 5B

Two-Dimensional Time-Dependent Simulation of Contaminant Transport from a Landfill, W85-02272 1805 5G

**SEPERS, A. B. J.**  
Influence of Varying Environmental Conditions on the Activity of Heterotrophic Bacteria, W85-04700 1809 2H

**SEPHTON, L. M.**  
Overturn in a Hypertrophic, Warm, Monomictic Impoundment (Hartbeespoort Dam, South Africa), W85-01481 1803 2H

**SERAG-EL-DIN, S. G.**  
Significance of Effects in a Reverse Osmosis Desalination Unit, W85-05113 1810 3A

**SERAK, L.**  
Electrochemical Measurement of Dissolved Oxygen in Water, W85-02314 1805 5A

**SERBAN, I.**  
Methods for Evaluation Maximum Acceptable Toxicant Concentration of Some Pesticides Upon the Freshwater Fish. I. Evaluation MATC Values of Fungicide Thiram (Metode de Determinare a Valorilor Maxime Admisibile (MATC) in Apa a Unor Pesticide Asupra Unor Specii de Pestii Dulcicoli. I. Determinarea Valorii MATC a Fungicidului Tiuram), W85-03531 1807 5C

**SERGEVA, N. S.**  
Seepage Regime of the Hydraulic-Fill Dam of the Minechaur Hydropower Development, W85-03577 1807 8D

**SERGEVA, O. A.**  
Dynamics of Zooplankton in the Chernobyl Atomic Power Plant Water Cooling (Sezonnaya Dinamika Zooplanktona vodootoma-Okhladiteley Cherhobys'koi Atomnoi Elektrostantsii), W85-06377 1812 5C

**SERICANO, J. L.**  
Behaviour of Hexachlorocyclohexane Isomers and Zn, Cu and Cd in the Freshwater-Seawater Mixing Area, W85-02760 1806 5B

Chlorinated Hydrocarbons in the Seawater and Surface Sediments of Blanca Bay, Argentina, W85-02289 1805 5B

Simplified Confirmatory Technique for Organochlorine Residues, W85-01456 1803 5A

**SERIE, C.**  
Seasonal Distribution of Enteroviruses and Adenoviruses in Domestic Sewage, W85-05742 1810 5B

**SERKOV, A. V.**  
Temporal Variation of the Characteristics of Sands in Hydraulic-Fill Structures of the Riga Hydroelectric Station, W85-05023 1810 8D

**SERLET, M.**  
Storm Drainage Design and Technical Criteria, W85-05484 1810 4A

**SERNE, R. J.**  
Uranium Mobility in the Natural Environment; Evidence from Sedimentary Roll-Front Deposits, W85-06777 1812 5B

**SERODES, J.-B.**  
Sedimentation Cycle of a Freshwater Tidal Flat in the St. Lawrence Estuary, W85-02396 1805 2L

**SERRUYA, S.**  
Steady Winter Circulations in Lakes Constance and Kinneret Driven by Wind and Main Tributaries, W85-05727 1810 2H

**SERVAIS, P.**  
Annual Cycle of Gross Primary Production and Respiration in the Viroin River (Belgium), W85-00413 1801 2H

**SESHAN, K.**  
How Are the Physical and Chemical Properties of Chrysotile Asbestos Altered by a 10-Year Residence in Water and up to 5 Days in Simulated Stomach Acid, W85-02713 1806 5B

## AUTHOR INDEX

SHAPIRO, J.

**SETARO, F. V.**  
Responses of Phytoplankton to Experimental Nutrient Enrichment in an Amazon Floodplain Lake,  
W85-02785 1806 5C

**SETO, M.**  
Dissolved Organic Carbon as a Controlling Factor in Oxygen Consumption in Natural and Man-made Waters,  
W85-00530 1802 5B

**SETTY, M. G. A. P.**  
Pollution Effects Monitoring With Foraminifera as Indices in the Thana Creek, Bombay Area,  
W85-01671 1804 5C

**SEUNA, P.**  
Influence of Forestry Draining on Runoff and Sediment Discharge in the Yijoki Basin, North Finland,  
W85-02384 1805 4C

**SEVALDRUD, I. H.**  
Relationship between Fish Populations and pH for Lakes in Southermost Norway,  
W85-00550 1802 5C

**SEVAST'YANOV, V. I.**  
Multipurpose Use and Protection of Water Resources in Power Complexes Including Nuclear Power Stations,  
W85-04090 1808 6G

**SEVERIN, B. F.**  
Field Observations on the Occurrence of New Indicators of Disinfection Efficiency,  
W85-06224 1812 5A

Mixing Effects in UV Disinfection,  
W85-01659 1804 5D

Removal of New Indicators by Coagulation and Filtration,  
W85-04833 1809 5F

Ultraviolet Disinfection for Municipal Wastewater,  
W85-06430 1812 5D

**SEVERINI, M.**  
Dewfall and Evapotranspiration Determination During Day- and Nighttime on an Irrigated Lawn,  
W85-03849 1808 2D

**SEVERN, R. L.**  
Dynamic Response of Dams and Other Structures to Differential Ground Motions,  
W85-03053 1806 8E

**SEVERSON, R. K.**  
Cancer Risk from Asbestos in Drinking Water: Summary of a Case-Control Study in Western Washington,  
W85-02705 1806 5C

**SEWELL, P. L.**  
Urban Groundwater as a Possible Nutrient Source for an Estuarine Benthic Algal Bloom,  
W85-00662 1802 5B

**SEXSTONE, A. J.**  
Temporal Response of Soil Denitrification Rates to Rainfall and Irrigation,  
W85-05187 1810 2G

**SEXTON, P. D.**  
Effect of Furrow Diking, Subsoiling, and Slope Position on Crop Yields,  
W85-06186 1812 3F

**SEYAMA, H.**  
Characterization of Sediment Reference Materials by X-Ray Photoelectron Spectroscopy,  
W85-06250 1812 2H

**SEYFRIED, C. F.**  
Dry Bed Filtration as a Second Biological Stage for the City of Mannheim (1,200,000 PE),  
W85-03650 1807 5D

**SEYLER, P.**  
Comparative Study of Mercury Contamination in the Tagus Estuary (Portugal) and Major French Estuaries (Gironde, Loire, Rhone),  
W85-06854 1812 5B

**SEYMOUR, P. H.**  
Reinforced Earth Retaining Wall Under Vertical and Horizontal Strip Loading,  
W85-03423 1807 8D

**SEYMOUR, V. A.**  
Soil Surface Psychrometer for Measuring Humidity and Studying Evaporation,  
W85-06197 1812 7B

**SHABANOWITZ, J.**  
Scheme for the Direct Analysis of Organics in the Environment by Tandem Mass Spectrometry,  
W85-04656 1809 5A

**SHABLINSKII, G. E.**  
Vibration Tests of the Andizhan Reservoir Butress Dam,  
W85-05024 1810 8G

**SHABMAN, L. A.**  
Biological and Economic Impact of Stream Alteration in the Virginia Piedmont,  
W85-06956 1812 6G

Virginia's Water Law: Resolving the Interjurisdictional Transfer Issue,  
W85-02183 1805 6D

**SHABAIE, S.**  
Tabular Icebergs: Implications from Geophysical Studies of Ice Shelves,  
W85-00678 1802 2C

**SHACHAM, D.**  
Minimizing Capital Costs of Multi-Outlet Pipelines,  
W85-01509 1803 8A

**SHACKLEY, S. E.**  
Effects of Zinc on the Ultrastructure of the Brain Cells of the Larvae of *Clupea harengus* L.,  
W85-03689 1807 5C

**SHADE, E.**  
Water, Salinity, and Nitrate Relations of a Citrus Watershed Under Drip, Furrow, and Sprinkler Irrigation,  
W85-04346 1808 3F

**SHAFFER, G. P.**  
Effect of Sedimentation on the Primary Production of Benthic Microflora,  
W85-05707 1810 2L

**SHAFFER, R. W.**  
Determination of Wintertime Cloud Seeding Potential in the Mogollon Rim Area of Arizona,  
W85-04218 1808 2B

**SHAFI, M.**  
Age and Growth of *Barbus grypus* Heckel from a Polluted River,  
W85-01451 1803 5C

**SHAGOVENKO, P. I.**  
Effectiveness of Floating Biofilters of Emergent Aquatic Plants in Relation to the Characteristics of Their Formation,  
W85-04098 1808 5G

**SHAHAA, S. K.**  
Water Hyacinth Canopy and Pan Evaporation,  
W85-02128 1804 4A

**SHAHLAHAM, A. M.**  
Mixed Culture Biological Activity in Water Containing Variable Low Concentrations of Cyanide, Phenol, and BOD,  
W85-05419 1810 5D

**SHAINBERG, I.**  
Effect of Raindrop Impact Energy and Water Salinity on Infiltration Rates of Sodic Soils,  
W85-05188 1810 2G

**Effect of Water Quality and Drying on Soil Crust Properties,**  
W85-05189 1810 2G

**SHAKUR, M. A.**  
Isotope Geochemistry of Stratified Lake 'A', Ellesmere Island, N.W.T., Canada,  
W85-03195 1806 2H

**SHALASH, S.**  
Effects of Sedimentation on the Storage Capacity of the High Aswan Dam Reservoir,  
W85-02101 1804 4A

**SHALHEVET, J.**  
Effect of High Sodium Irrigation Water on Soil Salinity and Yield of Mature Grapefruit Orchard,  
W85-05935 1811 3C

**SHAMIR, U.**  
Motion of the Seawater Interface in a Coastal Aquifer by the Method of Successive Steady States,  
W85-05535 1810 2F

**SHAMS, J.**  
Performance of Multiple Effect Diffusion Stills,  
W85-03975 1808 3A

Performance of Multiple Effect Diffusion Stills,  
W85-07094 1812 3A

**SHANE, L.**  
PCB Congener Analysis of Water and Caddisfly Larvae (Insecta: Trichoptera) in the Upper Hudson River by Glass Capillary Chromatography,  
W85-04350 1808 5A

**SHANE, S. H.**  
Manatee Use of Power Plant Effluents in Brevard County, Florida,  
W85-04696 1809 5C

**SHANHOLTZ, V. O.**  
Finite Element Storm Hydrograph Model,  
W85-05343 1810 2A

Probabilistic Modeling of Soil Loss from Surface Mined Regions,  
W85-06090 1811 2J

**SHANKER, H.**  
Unit Hydrograph Based Forecast Model,  
W85-02827 1806 2A

**SHANNON, L. J.**  
Assessment of Historical Change in Two Northern Minnesota Lakes,  
W85-04602 1809 5B

**SHAPIRO, A. M.**  
Motion of the Seawater Interface in a Coastal Aquifer by the Method of Successive Steady States,  
W85-05535 1810 2F

Shape of the Non-Steady Interface Intersecting Discontinuities in Permeability,  
W85-04168 1808 2F

**SHAPIRO, G. A.**  
Vibration Tests of the Andizhan Reservoir Butress Dam,  
W85-05024 1810 8G

**SHAPIRO, G. I.**  
Dynamics of a Slowly Moving Front in a Shallow Water Body,  
W85-04117 1808 2L

**SHAPIRO, J.**  
Blue-green Dominance in Lakes: The Role and Management Significance of pH and CO<sub>2</sub>,  
W85-04909 1809 2H

Lake Restoration by Biomanipulation: Round Lake, Minnesota, the First Two Years,  
W85-02284 1805 5G

## AUTHOR INDEX

**SHAPIRO, J.**

Nutrient Reduction by Biomanipulation: An Unexpected Phenomenon and Its Possible Cause, W85-02645 1805 5G

**SHARABI, M. N.**  
Nonlinear Response of Coupled Flow-Stress Problems, W85-07103 1812 8D

**SHAREFKIN, M.**  
Impacts, Costs, and Techniques for Mitigation of Contaminated Groundwater: A Review, W85-03982 1808 5G

**SHARIFI, M. R.**  
Comparative Water Relations of Phreatophytes in the Sonoran Desert of California, W85-00256 1801 2I

**SHARITZ, R.**  
Nontidal Wetland Mapping in South Carolina Using Airborne Multispectral Scanner Data, W85-03301 1807 7B

**SHARMA, D. R.**  
Hydraulic Properties of a Sandy Loam Soil as Influenced by Salinisation and Desalination, W85-05934 1811 2G

**SHARMA, E.**  
Soil, Water and Nutrient Conservation by Certain Riparian Herbs, W85-01156 1803 2J

**SHARMA, H. D.**  
Protect and Monitor Groundwater, W85-03744 1807 5G

**SHARMA, K. P.**  
Seasonal Changes in Concentration of Major Nutrient Elements in the Rhizomes and Leaves of *Typha elephantina* Roxb., W85-03316 1807 5D

**SHARMA, M. L.**  
Evapotranspiration and Soil Heterogeneity, W85-06679 1812 2D

Evapotranspiration from a Eucalyptus Community, W85-06668 1812 2D

**SHARMA, M. P.**  
Note on Eutrophic Characteristics of Two Freshwater Bodies of Kurukshetra, India, W85-06868 1812 2H

**SHARMA, P.**  
Analysis of Steady-State Flow in Semiconfined Aquifers: A New Approach, W85-05844 1810 2F

Pollution and Saprobic Status of Eastern Kalinadi, W85-00798 1802 5C

Soil Moisture Transport Through the Unsaturated Zone: Tritium Tagging Studies in Sabarmati Basin, Western India, W85-01136 1803 2F

**SHARMA, P. C.**  
Species Composition of Zooplankton in Two Kumaun Himalayan Lakes (U.P., India), W85-06446 1812 2H

Species Composition, Temporal Abundance and Community Structure of Zooplankton in Lake SatTal (U.P.), India, W85-06401 1812 2H

**SHARMA, P. N.**  
Problems with Traditional Small Reservoir Irrigation Systems in the Semi Arid Tropics, W85-04747 1809 4A

**SHARMA, S. N.**  
Effect of Soil Moisture Regimes on the Yield and Water Use of Lentil (*Lens culinaris* Medic), W85-05171 1810 2I

**SHARP, D. G.**  
Virus Conformational Forms and the Complex Inactivation Kinetics of Echoivirus by Chlorine in Water, W85-05048 1810 5F

**SHARP, D. N.**  
Enteric Virus Levels in Wastewater Effluents and Surface Waters in the Severn Trent Water Authority 1979-1981, W85-01718 1804 5B

**SHARP, J. H.**  
Chemistry of the Delaware Estuary. General Considerations, W85-01599 1803 2L

**SHARP, J. J.**  
BASIC Hydrology, W85-06931 1812 2A

Scaling the Weight of Breakwater Armor Units, W85-07081 1812 8A

**SHARP, J. M. JR.**  
Hydrogeologic Characteristics of Shallow Glacial Drift Aquifers in Dissected Till Plains (North-Central Missouri), W85-03147 1806 2F

**SHARP, J. R.**  
Toxicity of Mercuric Chloride and Methylmercuric Chloride to Fundulus Heteroclitus Embryos in Relation to Exposure Conditions, W85-01119 1803 5C

**SHARPE, A. N.**  
Improved Recovery of Fecal Coliforms from the Ottawa River by Membrane Filters in the Presence of Food Debris, W85-05741 1810 5A

**SHARPE, W. E.**  
Causes of Acidification of Four Streams on Laurel Hill in Southwestern Pennsylvania, W85-03861 1808 5B

Contribution of Precipitation to Quality of Urban Storm Runoff, W85-04992 1810 5B

In-Situ Bioassays of Fish Mortality in Two Pennsylvania Streams Acidified by Atmospheric Deposition, W85-00205 1801 5C

Restoration of Failing On-Site Wastewater Disposal Systems Using Water Conservation, W85-01656 1804 5D

**SHARPLESS, N. B.**  
Ground-Water Supply Potential and Procedures for Well-site Selection, Upper Cape Fear River Basin, W85-00584 1802 2F

**SHASHA, S.**  
Short Meromictic Episode in the Dead Sea: 1979-1982, W85-02612 1805 2H

**SHATALOVA, K. YU.**  
Investigation of the Possibility of Using the Composition Method for Determining Mineralization of Water in a River System, W85-04120 1808 2K

**SHATANAWI, M. R.**  
Management Contours for Border Irrigation, W85-03821 1808 3F

Normalized Graphs of Border-Irrigation Performance, W85-03818 1808 3F

**SHAUL, G. M.**  
Activated Sludge with Powdered Activated Carbon Treatment of a Dyes and Pigments Processing Wastewater, W85-05553 1810 5D

Treatment of Dye and Pigment Processing Wastewater by the Activated Sludge Process, W85-05284 1810 5D

**SHAW, C. F. III.**  
Zinc and Cadmium Metabolism in Euglena gracilis: Metal Distribution in Normal and Zinc-Deficient Cells, W85-05882 1811 5C

**SHAW, D. G.**  
Biochemistry of Acetate in Anoxic Sediments of Skan Bay, Alaska, W85-03207 1806 2L

**SHAW, E. M.**  
Forecasting Water Levels for Lake Chad, W85-02362 1805 6A

**SHAW, G. R.**  
Factors Influencing Concentrations of Polychlorinated Biphenyls in Organisms from an Estuarine Ecosystem, W85-00787 1802 5B

**SHAW, R.**  
Phytoplankton of Lake Simcoe During the Ice-Free Periods of 1980-82 and Potential Response to Reduced Phosphorus Loadings, W85-06860 1812 2H

**SHAW, T. L.**  
Minimizing the Possible Effects of a Tidal Power Barrage on the Shorebird Populations of the Severn Estuary, W85-01158 1803 6G

**SHAWCROSS, J. F.**  
Aquifer Protection Planning: Groundwater Protection in Two Massachusetts Communities, W85-05912 1811 5G

Aquifer Protection Planning in the North Eastern United States, W85-01524 1803 5G

**SHAY, J. M.**  
Ephemeral Saline Lakes on the Canadian Prairies: Their Classification and Management for Emergent Macrophyte Growth, W85-05753 1810 2H

**SHCHEGOLEV, G. S.**  
Alignment of the Rotor of a Vertical Unit, W85-03584 1807 8C

**SHEA, R. E.**  
Role of Internal Tides in the Nutrient Enrichment of Monterey Bay, California, W85-00650 1802 2L

**SHEAFFER, K. J. R.**  
Circular vs. Linear Water Systems, Going Back to Nature's Way, W85-03039 1806 6A

**SHEAIL, J.**  
Constraints on Water-resource Development in England and Wales: The Concept and Management of Compensation Flows, W85-06178 1812 6E

**SHEAR, H.**  
Zooplankton and Potential Fish Production in Lake Ontario, W85-02999 1806 2H

**SHEARIN, A. T.**  
Irrigation of Swine Lagoon Effluent onto Pine and Hardwood Forests, W85-04741 1809 5D

**SHEARMAN, J. O.**  
Digital Model for Streamflow Routing by Convolution Methods, W85-03942 1808 2E

**SHECHTER, M.**  
Anatomy of a Groundwater Contamination Episode, W85-07090 1812 5B

## AUTHOR INDEX

SHIH, S. F.

Economic Aspects in the Investigation of Ground-Water Contamination Episodes, W85-05840 1810 5C

Impacts, Costs, and Techniques for Mitigation of Contaminated Groundwater: A Review, W85-03982 1808 5G

**SHELLOCK, R. J.**  
Shallow Ground-Water Flow and Drainage Characteristics of the Brown Ditch Basin near the East Unit, Indiana Dunes National Lakeshore, Indiana, 1982, W85-01948 1804 4A

**SHEER, D. P.**  
Improve Operation or Build New Projects, W85-01570 1803 6B

**SHEFF, B. B.**  
Measurements to Quantify Wastewater Fields Produced by Outfall Diffusers, W85-00067 1801 5B

**SHEFFIELD, C. W.**  
Spray Irrigation of Citrus Waste, W85-05231 1810 5D

**SHEFFRIN, N. M. H.**  
Behavioural Bioassay for Impaired Sea-Water Quality Using the Plantigrades of the Common Mussel *Mytilus edulis* L.: The Effect of pH on Copper Speciation and Toxicity, W85-00879 1802 5C

**SHEHATA, S. A.**  
Uptake and Accumulation of Selected Herbicides by the Freshwater Alga *Scenedesmus*, W85-03224 1807 5C

**SHEIKHDESLAMI, B.**  
Metal Inhibition of Nitrification, W85-05234 1810 5D

**SHEKHANOVA, I. A.**  
Effect of Pesticides on Russian Sturgeon, *Acipenser gueldenstaedti* (*Acipenseridae*), in the Embryonic-Larval Period, W85-02854 1806 5C

**SHEKHWAT, S. S.**  
Acute Toxicity of Phenol, Pentachlorophenol and Sodium Pentachlorophenole to a Freshwater Ostracod *Cypris subglobosa* (Sowerby), W85-06271 1812 5C

**SHELDON, A. L.**  
Cost and Precision in a Stream Sampling Program, W85-00420 1801 6A

**SHELEF, G.**  
Coprecipitation of Microalgal Biomass with Calcium and Phosphate Ions, W85-04498 1809 5F

**SHELKOVNIKOV, N. K.**  
Influence of Wind on Currents in River Mouths (O Vilyanii Vetsa na Tcheliya v Ust'yakh Rek), W85-06455 1812 2E

**SHELLEY, F. M.**  
Local Opposition to the Transfer of Water Supplies; An Oklahoma Case Study, W85-03138 1806 6D

**SHELLITO, G.**  
Effect of Phosphorus Additions in Enclosures on the Phytoplankton and Zooplankton of an Acid Lake, W85-01454 1803 5C

**SHELTON, D. P.**  
Tillage, Residue and Erosion on Moderately Sloping Soils, W85-03402 1807 2J

**SHELTON, L. R.**  
Water Resources Data, Kansas Water Year 1982, W85-01932 1804 2E

**SHELTON, W. L.**  
Effects of Water Level Manipulation on Abundance, Mortality, and Growth of Young-of-Year Largemouth Bass in West Point Reservoir, Alabama-Georgia, W85-02375 1805 6G

**SHEN, H. T.**  
Effect of Ice Cover on Hydropower Production, W85-02444 1805 8B

Simulation of Growth and Decay of River Ice Cover, W85-01559 1803 2C

Tidal Phase Control of Sediment Discharge from the Yangtze River, W85-02292 1805 2J

Unified Degree-Day Method for River Ice Cover Thickness Simulation, W85-06551 1812 2C

**SHEN, H. W.**  
Analysis of Commonly Used Riprap Design Guides Based on Extended Shields Diagram, W85-06115 1811 2J

Plotting Positions for Pearson Type-III Distribution, W85-03079 1806 2E

Simple Methods for Estimating Backwater and Constriction Scour at Bridges and Abrupt Encroachments, W85-04334 1808 8B

**SHEN, M.-N.**  
Indirect Determination of Trace Phenol in Water by Atomic-Absorption Spectrometry, W85-06251 1812 5A

**SHEN, P.**  
Foreign Elements in a Clam Shell: A Clue to the History of Marine Pollution Events, W85-02541 1805 5A

**SHEN, W.**  
Relationships Between Arsenic and Other Elements (Iron, Aluminium, Manganese etc) in Surface Sediments of Bohai Bay (in Chinese), W85-04835 1809 2K

**SHEPHERD, R. G.**  
Regression Analysis of River Profiles, W85-07037 1812 2A

**SHEPPARD, M. I.**  
Uptake by Plants and Migration of Uranium and Chromium in Field Lysimeters, W85-01281 1803 5B

**SHEPPARD, S. C.**  
Uptake by Plants and Migration of Uranium and Chromium in Field Lysimeters, W85-01281 1803 5B

**SHERARD, J. L.**  
Trends and Debatable Aspects in Embankment Dam Engineering, W85-04032 1808 8D

**SHERIDAN, J.**  
Managing Riparian Ecosystems to Control Non-point Pollution, W85-05956 1811 5G

**SHERIDAN, J. M.**  
Approximate Method for Partitioning Daily Streamflow Data, W85-03758 1807 2A

Estimating the Effectiveness of Vegetated Floodplains/Wetlands as Nitrate-Nitrite and Orthophosphorus Filters, W85-06634 1812 5B

**SHERMAN, P. B.**  
Forest Management for Increased Timber and Water Yields, W85-01338 1803 3B

**SHERR, E. B.**  
delta  $^{13}\text{C}$  Measurements as Indicators of Carbon Flow in Marine and Freshwater Ecosystems, W85-04431 1809 2K

**SHERRATT, D. J.**  
Use of Surface Resistance-Soil Moisture Relationships in Soil Water Budget Models, W85-01060 1802 2D

**SHERRETZ, L. A.**  
Comparison of the Potential of Cloud Seeding to Enhance Mountain Snowpack in Colorado During Dry, Normal and Wet Winters, W85-04211 1808 3B

**SHERRILL, T. W.**  
Impact of Coal-Coking Effluent on Sediment Microbial Communities: A Multivariate Approach, W85-00095 1801 5C

**SHERTZER, R. H.**  
Water Quality Impacts of Chlorinating Papermill Effluents, W85-07047 1812 5D

**SHEU, H.**  
Polyaluminum Chloride and Alum Coagulation of Clay-Fulvic Acid Suspensions, W85-06588 1812 5F

**SHIAO, M. C.**  
Long-Range Reservoir Outflow Temperature Planning, W85-01565 1803 6G

**SHIARIS, M. P.**  
Impact of Coal-Coking Effluent on Sediment Microbial Communities: A Multivariate Approach, W85-00095 1801 5C

**SHIBATA, T.**  
Simulation Study of Eutrophication in Hiroshima Bay, W85-06739 1812 2L

**SHIDEKER, G. L.**  
Suspended Sediment Responses in a Wind-Dominated Estuary of the Texas Gulf Coast, W85-02835 1806 2J

**SHIEL, R. J.**  
Structure and Dynamics of Zooplankton Communities, Alligator Rivers Region, N.T., Australia, W85-02405 1805 2H

**SHIELDS, G. S.**  
Biooxidation of Coal Gasification Wastewaters, W85-04038 1808 5D

**SHIELDS, J. A.**  
Estimated Soil Water Reserves Applicable to a Wheat-Fallow Rotation for Generalized Soil Areas Mapped in Southern Saskatchewan, W85-04355 1808 2G

**SHIELDS, P. A.**  
Modified Membrane-Filter Procedure for Concentration of Enteroviruses From Tap Water, W85-05054 1810 5A

**SHIELLS, G. M.**  
Pollution Monitoring Using the Nematode/Co-poop Ratio, A Practical Application, W85-05860 1811 5C

**SHIH, S. F.**  
Data Requirement for Evapotranspiration Estimation, W85-02445 1805 2D

Evapotranspiration and Water Use Efficiency of Taro, W85-06081 1811 2D

Evapotranspiration of Lettuce in Relation to Water Table Depth, W85-03399 1807 2G

## AUTHOR INDEX

**SHILLAM, P.**

**SHILLAM, P.**  
Waterborne Disease in Colorado: Three Years' Surveillance and 18 Outbreaks,  
W85-05521 1810 5F

**SHIMADA, M.**  
New Numerical Model and Technique for Waterhammer,  
W85-00727 1802 8B

**SHIMIZU, C.**  
Gas Chromatographic Determination of Hydrogen Sulphide in Anoxic Waters,  
W85-01151 1803 5A

**SHIMIZU, K.**  
Thermodynamic Properties of R13 (CClF<sub>3</sub>), R23 (CHF<sub>3</sub>), R152a (C<sub>2</sub>H<sub>4</sub>F<sub>2</sub>) and Propane Hydrates for Desalination of Sea Water,  
W85-03890 1808 3A

**SHIMIZU, N.**  
High-BOD Loading Treatment Using Large-Scale Deep Aeration Tanks,  
W85-02972 1806 5D

**SHIMONO, T.**  
Microdetermination of Silicic Acid in Water by Gel-Phase Colorimetry with Molybdenum Blue,  
W85-03340 1807 5A

**SHIMP, R.**  
Influence of Naturally Occurring Humic Acids on Biodegradation of Monosubstituted Phenols by Aquatic Bacteria,  
W85-05051 1810 5B

**SHIMP, R. J.**  
Influence of Easily Degradable Naturally Occurring Carbon Substrates on Biodegradation of Monosubstituted Phenols by Aquatic Bacteria,  
W85-05050 1810 5B

**SHINOHARA, K.**  
Separation of Aromatic Substances from Aqueous Solutions Using a Reverse Osmosis Technique with Thin, Dense Cellulose Acetate Membranes,  
W85-01313 1803 5D

**SHINOHARA, R.**  
Determination of Trace Azaarenes in Water by Gas Chromatography and Gas Chromatography-Mass Spectrometry,  
W85-00165 1801 5A

Determination of Trialkyl and Triaryl Phosphates in Environmental Samples,  
W85-04497 1809 5B

**SHIOMOTO, A.**  
Seasonal Variation of Dissolved Organic Matter in Funka Bay,  
W85-06441 1812 2L

**SHIONO, K.**  
Note on Flow Structure in the Great Ouse Estuary,  
W85-03107 1806 2L

Note on Turbulent Perturbations of Salinity in a Partially Mixed Estuary,  
W85-05689 1810 2L

**SHIOZAWA, T.**  
Sedimentation Rates and Heavy Metal Pollution of Sediments in the Seto Inland Sea; Part 2. Hiroshima Bay,  
W85-01497 1803 5C

Sedimentation Rates and Heavy Metal Pollution of Sediments in the Seto Inland Sea, Part 3. Hiuchi-Nada,  
W85-05687 1810 5B

**SHIPOVALOV, G. V.**  
Altitudinal Hydrochemical Zonation of Groundwaters,  
W85-04106 1808 2F

**SHIRAKASHI, T.**

Some Properties of Mucilage Polysaccharides Extracted from Sewage Activated Sludge,  
W85-04252 1808 5D

**SHIRASUKA, K.**

Material Balance Analysis for Fluoride Ions in Experimental Waste Disposal Plant,  
W85-01732 1804 5D

**SHIREMAN, J. V.**

Cost Analysis of Aquatic Weed Control: Fish Versus Chemicals in a Florida Lake,  
W85-01584 1803 4A

**SHIREMAN, J. V.**

Prediction of Chlorophyll a Concentrations in Florida Lakes: Importance of Aquatic Macrophytes,  
W85-00154 1801 2H

**SHIRES, S. W.**

Contamination and Effects in Freshwater Ditches Resulting from an Aerial Application of Cypermethrin,  
W85-06742 1812 5C

Toxicity of a New Pyrethroid Insecticide, WL85871, to Rainbow Trout,  
W85-04353 1808 5C

**SHIRLEY, E. D.**

Identification of Water Sources Using Normalized Chemical Ion Balances: A Laboratory Test,  
W85-06045 1811 2K

**SHIRMOHAMMAD, A.**

Approximate Method for Partitioning Daily Streamflow Data,  
W85-03758 1807 2A

**SHIRMOHAMMADI, A.**

Effect of Soil Surface Conditions on Infiltration for Shallow Water Table Soils,  
W85-06087 1811 2G

**SHISLER, J.**

Avian Utilisation on Six Salt Marshes in New Jersey,  
W85-00120 1801 2L

**SHITASHIMA, K.**

Application of Reversed-Phase Liquid Chromatography to Dissolved Organic Matter in Estuarine Seawater,  
W85-07065 1812 5A

**SHLEYFER, G. S.**

Influence of Mercury Accumulation on Fish,  
W85-02849 1806 5C

**SHIMYGLYA, L. N.**

Salt Removal from Soils of the Low Syrt Plain,  
W85-06749 1812 2G

**SHOCKLEY, M.**

Investigation of the Carrying Capacity of the Monocacy River as a Scenic and Recreational Resource, Volume II. Characteristics and Interpretations of Selected Social and Environmental Considerations Important to the Monocacy River,  
W85-00606 1802 6G

**SHODA, M.**

Change in Microbial Numbers During Thermophilic Composting of Sewage Sludge with Reference to CO<sub>2</sub> Evolution Rate,  
W85-04259 1808 5E

**SHOEMAKER, C. A.**

Characteristics of Mesophilic Bacteria Isolated during Thermophilic Composting of Sewage Sludge,  
W85-04260 1808 5E

**SHOEMAKER, C. A.**

Effect of Seeding During Thermophilic Composting of Sewage Sludge,  
W85-05513 1810 5D

**SHOEMAKER, C. A.**

Integer Programming Analysis of the Regionalization of Large Wastewater Treatment and Collection Systems,  
W85-01340 1803 5F

**SHOJI, Y.**

Preliminary Studies on Treatment of Chromium Tannery Waste Sludge by Anaerobic Digestion,  
W85-04251 1808 5D

**SHOPE, W. G. JR.**

Development of Earth Satellite Technology for the Telemetry of Hydrologic Data,  
W85-02989 1806 7B

**SHORT, R. A.**

Influence of Highway Construction on the Macroinvertebrates and Epilithic Algae of a High Mountain Stream,  
W85-01470 1803 5C

Leaf Litter Processing Rates in Four Texas Streams,  
W85-02247 1805 2H

Macroinvertebrates and Fish of a Colorado Stream During a Period of Fluctuating Discharge,  
W85-00295 1801 2H

**SHORTLE, J. S.**

Agricultural Nonpoint Pollution Control: Voluntary or Mandatory,  
W85-05961 1811 5G

**SHORTREED, K. S.**

Integration of Forest and Lake Fertilization: Transport and Transformations of Fertilizer Elements,  
W85-00147 1801 5G

Periphyton Biomass and Species Composition in 21 British Columbia Lakes: Seasonal Abundance and Response to Whole-Lake Nutrient Additions,  
W85-00954 1802 5G

**SHOWALTER, P.**

Developing Objectives for the Ground Water Quality Monitoring Network of the Salinas River Drainage Basin,  
W85-06830 1812 7A

**SHPOTOVA, T. V.**

Redox State and Seasonal Toxicity of Natural Water,  
W85-04363 1808 5B

**SHRESTHA, C. L.**

River Sedimentation and Remedial Measures in Nepal,  
W85-06543 1812 4D

**SHRIVASTAVA, A. K.**

Fish Suffocation in Lake Nainital (India) Caused by Pollution and Parasite Infection (Gibel'ryb v Ozere Nainital (Indiya) v Rezul'tate Zagryazneniya i Zarazheniya Parazitami),  
W85-06478 1812 5C

**SHTABSKII, L. M.**

Multipurpose Criteria of Selecting the Method of Regulating the Delivery of Pumping Stations of a Water-Supply Canal,  
W85-05824 1810 6C

**SHTAF, L. G.**

Selecting Sites of Projected Fish Passes,  
W85-00159 1801 8I

**SHTAMM, E. V.**

Redox State and Seasonal Toxicity of Natural Water,  
W85-04363 1808 5B

**SHTERENIKHT, D. V.**

Characteristics of the Drag on Baffle Blocks,  
W85-05988 1811 8B

**SHTIN, A. M.**

Hydraulicking at the Construction of the Zagosrk Pumped-Storage Station,  
W85-00442 1801 8H

## AUTHOR INDEX

SIMCO, B. A.

**SHUBAT, P.**  
Toxicity of Flucythrinate to Gammarus lacustris (Amphipoda), Pteronarcys dorsata (Plecoptera) and Brachycentrus americanus (Trichoptera): Importance of Exposure Duration, W85-02750 1806 5C

**SHUGRIN, S. M.**  
Numerical Methods of Solving One-Dimensional Problems of Hydraulics, W85-04119 1808 8B

**SHUKLA, G. S.**  
Insecticide Toxicity to Macrobrachium lamarrei (H. Milne Edwards) (Decapoda, Palaemonidae), W85-02235 1805 5C

Mercuric Chloride Intoxication in Freshwater Prawn, II; Effect on Phosphatases Activity, W85-06016 1811 5C

Toxicity of Copper Sulphate and Zinc Sulphate to Macrobrachium lamarrei (H. Milne Edwards) (Decapoda, Palaemonidae), W85-03513 1807 5C

**SHUKLA, J. P.**  
Acute Toxicity of Carbamide and its Long Term Effects on the Growth of Fingerlings of a Tropical Fresh Water Teleost, Colisa fasciatus (Bloch and Sch.), W85-06658 1812 5C

**SHUL'MAN, S. C.**  
Calculation of the Effect of Seismic Loads on Earth Dams by the Linear Spectral Method, W85-00429 1801 8D

**SHUNMUGASUNDARAM, S.**  
Growth Behaviour of Field Grown Sugarcane Varieties in Relation to Environmental Parameters and Soil Moisture Stress, W85-06192 1812 2I

**SHUPE, S.**  
Resources of the Tug Hill Region, W85-00044 1801 6D

**SHUTES, R. B. E.**  
Influence of Surface Runoff on the Macro-Invertebrate Fauna of an Urban Stream, W85-00749 1802 5B

**SHVETS, V. B.**  
Lowering the Water Table with Radial Drains, W85-06841 1812 4B

**SHYAMALA, B.**  
Rainfall Over Lakes Around Bombay, W85-05094 1810 2B

**SIBLEY, T. H.**  
Adsorption of Curium-244: Effects of Dissolved Organics and Sediment Extraction, W85-03857 1808 5B

**SICCAMA, T. G.**  
Spruce Decline in the Northern Appalachians: Evaluating Acid Deposition as a Possible Cause, W85-04236 1808 5A

**SICK, L. V.**  
Simultaneous Accumulations of Naphthalene, a PCB Mixture, and Benzo(a)pyrene, by the Oyster, Crassostrea virginica, W85-04477 1809 5B

**SIDDIQUE, A. A.**  
Effect of the Carbamate Pesticide Sevin on the Intestinal Absorption of Some Nutrients in the Teleost Fish, Channa punctatus, W85-05697 1810 5C

**SIDIROPOULOS, E.**  
Analytical Treatment of Unsteady Horizontal Seepage, W85-03782 1808 2F

Simplified Determination and Sensitivity Analysis of Soil-Moisture Retention Curves and Hydraulic Conductivity, W85-03755 1807 2G

**SIDIROPOULOS, E. G.**  
Similarity and Iterative Solution of the Boussinesq Equation, W85-03080 1806 2F

**SIDLE, R. C.**  
Prediction of Peak Flows for Culvert Design on Small Watersheds in Oregon, W85-01820 1804 4A

**SIEBECK, O.**  
Implications of Slow Deep Water Renewal of Lake Koenigssee Derived from Combined Tritium-3Helium Measurements, W85-06395 1812 2H

Stratification of the Koenigssee (Bavaria, Germany) (Die Schichtungsverhaltnisse des Koenigssees), W85-02528 1805 2H

**SIEGEL, D. I.**  
Chloride Budget for the Mississippi River Headwaters to Mouth, W85-02976 1806 5B

Silicate Dissolution Influence on Filson Creek Chemistry, Northeastern Minnesota, W85-04310 1808 2K

**SIEGEL, P. R.**  
Abnormal Reproduction of the Sand Crab Emerita analoga in the Vicinity of a Nuclear Generating Station in Southern California, W85-01365 1803 5C

**SIEGFRIED, C. A.**  
Lake Acidification and the Biology of Adirondack Lakes: I. Rotifer Communities, W85-02646 1805 5C

**SIEKMA, R. C.**  
Tertiary Filtration: Practical Design Considerations, W85-02574 1805 5D

**SIEMINIAK, D.**  
Epipelagic Algae in Marginal Parts of the Przeczyce Reservoir and of Neighbouring Sectors of the River Czarna Przemsha (Upper Silesia); I. Algae in Constantly Submerged Zone, W85-02522 1805 2H

**SIERKA, R. A.**  
Catalytic Oxidation of Munitions Wastewater, W85-05423 1810 5D

Ultrasound Catalyzed Ozone Pretreatment to Reduce Organic Fouling of Reverse Osmosis Membranes, W85-06299 1812 5D

**SIEVERS, S.**  
Quantification of Volatile Sulfur Compounds Related to the Corrosion of Concrete Sewers, W85-01128 1803 5C

**SIGG, L.**  
Volammetric Methods for Distinguishing between Dissolved and Particulate Metal Ion Concentrations in the Presence of Hydroxides. A Case Study on Lead (II), W85-04800 1809 5A

**SIGNOR, D. C.**  
Regional Study of the Dakota Aquifer (Darton's Dakota Revisited), W85-00320 1801 2F

**SIGURDSSON, E. E.**  
Observations of Cancer Incidence Surveillance in Duluth, Minnesota, W85-02706 1806 5C

**SIGURDSSON, O.**  
Krafla Geothermal Field, Iceland; I. Analysis of Well Test Data, W85-03553 1807 2F

**SIIORA, J.**  
Landsat Classification of the Hydrolittoral Areas of the Bay of Liminka (Gulf of Bothnia, Finland), W85-03491 1807 7B

Substance Discharges in the Drainage Area of the Liminka Bay, W85-02390 1805 5B

**SIKORA, J. P.**  
Impact and Mitigation of Man-Made Canals in Coastal Louisiana, W85-00569 1802 6G

**SIKORA, V. A.**  
Model Code on Planning for and Allocations of Water to Public Water Systems, W85-06309 1812 6E

**SIKORA, W. B.**  
Impact and Mitigation of Man-Made Canals in Coastal Louisiana, W85-00569 1802 6G

**SILAKOSKI, L.**  
Fluidized Bed Technology in the Anaerobic Treatment of Forest Industry Wastewaters, W85-07006 1812 5D

**SILBERHORN, E.**  
Managing Water Resources in the New Orleans Area, W85-02581 1805 4A

**SILBURN, D. M.**  
Soil Properties of Surface Mined Land, W85-03392 1807 2G

**SILLS, M. A.**  
Use of Aquaculture for the Treatment of Landfill Leachate in Cold Climates, W85-05374 1810 5E

**SILIPATIP, S.**  
Heavy Metals and Polycyclic Hydrocarbon Compounds in Benthic Organisms of the Upper Gulf of Thailand, W85-01484 1803 5B

Trace Metal Composition of and Accumulation Rates of Sediments in the Upper Gulf of Thailand, W85-02654 1805 5B

**SILVANO, M.**  
Mutagenicity of Coal Tar Paints Used in Drinking Water Distribution Systems, W85-03659 1807 8G

**SILVERMAN, G. P.**  
Removing Giardia Cysts with Slow Sand Filtration, W85-04831 1809 5F

**SILVA, E. PSON, N. B.**  
Evaluation of Design of Ford Motor Company Industrial Waste Treatment Facilities, W85-05397 1810 5D

**SILVESTER, R.**  
Ecological Effects of Various Coastal Defense Systems, W85-00561 1802 8A

**SIMAKOV, Y. G.**  
Effect of Harmful Factors on the Posttraumatic Mitotic Activity in the Lens Epithelium of Rainbow Trout, *Salmo gairdneri* (Salmonidae), W85-05751 1810 5C

**SIMANTON, J. R.**  
Erosion of Earth Covers Used in Shallow Land Burial at Los Alamos, New Mexico, W85-01282 1803 5G

**SIMCO, B. A.**  
Confinement and Water Quality-Induced Stress in Largemouth Bass, W85-04680 1809 5C

## AUTHOR INDEX

**SIMENSTAD, C. A.**

**SIMENSTAD, C. A.**  
delta<sup>13</sup>C Evidence of the Origins and Fates of  
Organic Carbon in Estuarine and Nearshore  
Food Webs,  
W85-06877 1812 2L

**SIMKISS, K.**  
Cellular Responses of Molluscan Tissues to En-  
vironmental Metals,  
W85-05883 1811 5C

Ultrastructural Localization of Metals in Speci-  
mens of *Littorina littorea* Collected from Clean  
and Polluted Sites,  
W85-02543 1805 5C

**SIMMERS, L.**  
Systematic Problem-Oriented Approach to Hy-  
drological Data Regionalisation,  
W85-02459 1805 2A

**SIMMERS, J. W.**  
Field Survey of Heavy Metal Uptake by Nat-  
urally Occurring Saltwater and Freshwater  
Marsh Plants,  
W85-06976 1812 5B

**SIMMON, R. D.**  
Near Zero D.O. Activated Sludge Case History,  
W85-05556 1810 5D

**SIMMONDS, P. G.**  
Analysis of Trace Halocarbons in Natural  
Waters by Simplified Purge and Cryotrap  
Method,  
W85-00168 1801 5A

**SIMMONS, C. E.**  
Effects of Channel Excavation on Water-Quality  
Characteristics of the Black River and on  
Ground-Water Levels near Dunn, North Carolina,  
W85-01924 1804 2A

Hydrologic Condition of the Chicod Creek  
Basin, North Carolina, Before and During Chan-  
nel Modifications, 1975-81,  
W85-03928 1808 4A

**SIMMONS, G. JR.**  
Leaf Litter Processing in a Virginia Reservoir:  
The Role of Temperature and Fish,  
W85-05632 1810 2H

**SIMMONS, G. M. JR.**  
Colonization and Succession of Benthic Ma-  
croinvertebrates in a New Reservoir,  
W85-0425 1801 6G

Nutritive Quality and Size Fractions of Natural  
Seston in an Impounded River,  
W85-02897 1806 2H

Seston Microbial Activity in a River-Reservoir  
System,  
W85-02249 1805 2H

**SIMMONS, I. G.**  
Environmental Impact of an Opencast Operation  
in the Forest of Dean, England,  
W85-03824 1808 4C

**SIMMONS, M. S.**  
Dynamics of Pollutant Photoreactions in the  
Hydrosphere,  
W85-03281 1807 5B

**SIMMS, R. G.**  
Pilot Study for the Removal of Priority Pollut-  
ants by the PACT Process,  
W85-05425 1810 5D

**SIMOLA, H.**  
Limnological Effects of Peatland Drainage and  
Fertilization as Reflected in the Varved Sediment  
of a Deep Lake,  
W85-00982 1802 2H

Varve-Dated Eutrophication History of a Small  
Lake,  
W85-05628 1810 5C

**SIMON, B. M.**  
Interaction of Acetogens And Methanogens in  
Anaerobic Freshwater Sediments,  
W85-06146 1811 2H

**SIMON, E.**  
Design Discharges Estimation for Various  
Desert Sites near the Dead Sea (Israel),  
W85-05539 1810 2A

**SIMON, M.**  
Specific Uptake Rates of Amino Acids by At-  
tached and Free-Living Bacteria in a Mesotro-  
phic Lake,  
W85-07139 1812 2H

**SIMON, YU. A.**  
Vibration Tests of the Andizhan Reservoir But-  
ress Dam,  
W85-05024 1810 8G

**SIMONOVIC, S. P.**  
Risk-Reliability Programming for Optimal  
Water Quality Control,  
W85-01336 1803 5G

**SIMONS, D. B.**  
Mathematical Model for Estimating Scour  
Through Bridge Crossings,  
W85-06119 1811 2J

Riprap Stability Analysis,  
W85-06114 1811 2J

Soil Erosion Study of Exposed Highway Con-  
struction Slopes and Roadways,  
W85-06069 1811 4D

Use of Spurs and Guidebanks for Highway  
Crossings,  
W85-06111 1811 8A

**SIMPSON, R. L.**  
Fluxes of Heavy Metals in Delaware River  
Freshwater Tidal Wetlands,  
W85-01805 1804 5B

**SIMPSON, A. M.**  
Chemical Flocculation of Sewage,  
W85-04338 1808 5D

**SIMPSON, E. S.**  
Ground-Water Age Distribution in Madrid  
Basin, Spain,  
W85-00346 1801 2F

Groundwater Residence Times and Recharge  
Rates Using a Discrete-State Compartment  
Model and 14C Data,  
W85-01174 1803 2F

**SIMPSON, G. G.**  
Land Application of Kraft Paper Mill Sludges,  
W85-05395 1810 5E

**SIMPSON, J.**  
Pressure Transducer for Determining Atmos-  
pheric Pressure and Evapotranspiration with a  
Hydraulic Weighing Lysimeter,  
W85-01069 1802 7B

**SIMPSON, K. W.**  
PCB Congener Analysis of Water and Caddisfly  
Larvae (Insecta: Trichoptera) in the Upper  
Hudson River by Glass Capillary Chromatogra-  
phy,  
W85-04350 1808 5A

**SIMPSON, M. R.**  
Design and Implementation of Evapotranspira-  
tion Measuring Equipment for Owens Valley,  
California,  
W85-03188 1806 2D

**SIMS, A. F. E.**  
Hydrogen Peroxide in Municipal, Landfill and  
Industrial Effluent Treatment,  
W85-00684 1802 5D

Tip Leachate Treatment Using Hydrogen Per-  
oxide,  
W85-04522 1809 5D

**SIMS, M. D.**  
Spray Irrigation of Citrus Waste,  
W85-05231 1810 5D

**SIMS, M. J.**  
Acceptance of Treated Water by Northern  
Community Residents,  
W85-04921 1809 6D

**SIMS, R. C.**  
Application and Effectiveness of Slow Sand Fil-  
tration in the United States,  
W85-04405 1808 5F

Reovirus Removal and Inactivation by Slow-  
Rate Sand Filtration,  
W85-02940 1806 5F

**SIMSIMAN, G. V.**  
Release of Phosphorus and Metals from Soils  
and Sediments during Dispersion,  
W85-06207 1812 2J

**SINADA, F.**  
Physical and Chemical Characteristics of the  
Blue Nile and the White Nile at Khartoum,  
W85-01026 1802 2H

Primary Production and Respiration of the Phy-  
toplankton in the Blue and White Niles at Kharto-  
um,  
W85-01030 1802 2H

Quantitative Study of the Phytoplankton in the  
Blue and White Niles at Khartoum,  
W85-01029 1802 2H

**SINCERO, A. P.**  
Eutrophication Control and the Fallacy of Ni-  
trogen Removal,  
W85-04774 1809 5G

**SINCLAIR, J. L.**  
Role of Resistance to Starvation in Bacterial  
Survival in Sewage and Lake Water,  
W85-02600 1805 5B

**SINCLAIR, N. A.**  
Anaerobic Incubation of Membrane Filter Cul-  
tures for Improved Detection of Fecal Coli-  
forms from Recreational Waters,  
W85-02595 1805 5A

Effect of Noncoliforms on Coliform Detection  
in Potable Groundwater: Improved Recovery  
with an Anaerobic Membrane Filter Technique,  
W85-02140 1804 5F

**SINGER, M. J.**  
Deep Cultivation and Gypsum as Potential Solu-  
tions to Slow Water Penetration,  
W85-01093 1802 3F

Scanning Electron Microscope Studies of Sur-  
face Crusts Formed by Simulated Rainfall,  
W85-02875 1806 2G

**SINGER, P. C.**  
Competitive Adsorption of Phenols on Activated  
Carbon,  
W85-02820 1806 5D

Formation and Fate of Bromoform During De-  
salination,  
W85-03809 1808 3A

**SINGER, R.**  
Phytoplankton Limitation by Phosphorus and  
Zooplankton Grazing in an Acidic Adirondack  
Lake,  
W85-02243 1805 5C

Submersed Macrophyte Communities of Adiron-  
dack Lakes (New York, U.S.A.) of Varying  
Degrees of Acidity,  
W85-06804 1812 2H

## AUTHOR INDEX

SKAGGS, R. W.

**SINGH, B.**  
Investigation of Trace Metals by Stripping Voltammetry in the Effluent of Bathinda Thermal Power Station, W85-00511 1802 5A

Radiation and Energetic Exchanges and Thermal Balance of the Soil in the James Bay Area (Les échanges radiatifs et énergétiques et le bilan thermique du sol en Jamesie), W85-00142 1801 2G

**SINGH, I. S. B.**  
Microbial Indicators and Pathogens near the Mouth Region of Vembanad Lake, W85-01465 1803 5B

**SINGH, J. S.**  
Apportionment of Rainfall in Central Himalayan Forests (India), W85-06051 1811 2B

**SINGH, M.**  
Leaching of Soluble Salt During Infiltration and Redistribution, W85-05163 1810 2G

**SINGH, M. P.**  
Soil, Water and Nutrient Conservation by Certain Riparian Herbs, W85-01156 1803 2J

**SINGH, N. T.**  
Effect of Sodium and Bicarbonate Irrigation Waters on Sodium Accumulation and on Maize and Wheat Yields in Northern India, W85-05921 1811 2I

**SINGH, S. V.**  
Analysis and Prediction of Short Period Droughts During Summer Monsoon over India, W85-05085 1810 2B

**SINGH, T.**  
Effect of Water Stress at Three Growth Stages on the Yield and Water-Use Efficiency of Dwarf Wheat, W85-05933 1811 3F

Predicting Solute Yields in the Natural Waters of a Subalpine System in Alberta, Canada, W85-00876 1802 2K

**SINGH, U. P.**  
Innovative Sampling Techniques for Ground Water Monitoring at Hazardous Waste Sites, W85-03171 1806 7B

**SINGH, V.**  
Fermentation Process for Dilute Food and Dairy Wastes, W85-05257 1810 5D

**SINGH, V. N.**  
Removal of Cr(VI) from Aqueous Solutions by Adsorption on Fly Ash-Wollastonite, W85-03407 1807 5D

**SINGH, V. P.**  
Geomorphic Approach to Hydrograph Synthesis, with Potential for Application to Ungaged Watersheds, W85-00069 1801 2A

Rainfall-Runoff-Sediment Yield Relation by Stochastic Modelling, W85-01138 1803 2J

Solution of the Kinematic-Wave Equations for Border Irrigation, W85-03485 1807 3F

**SINGLETON, F. L.**  
Survival and Viability of Nonculturable Escherichia coli and Vibrio cholerae in the Estuarine and Marine Environment, W85-02186 1805 5B

**SINHA, B.**  
Role of Watershed Management in Water Resources Development Planning - Need for Inte-

grated Approach to Development of Catchment and Command of Irrigation Projects, W85-04441 1809 6B

**SINJEW, O. P.**  
Latest Results at the Deep-Current Aeration Facility in Rovno (USSR) (Neueste Ergebnisse über die Tiefstrombelüftungsanlage in Rovno (UdSSR)), W85-03460 1807 5D

**SINNIGER, R.**  
Dams - For Whom and For What Purposes (Des Barrages - Pour Qui, Pour Quoi), W85-01263 1803 6A

Reservoir Storage Equation Experimentally Verified, W85-04416 1809 2E

**SINNOCK, S.**  
Heuristic Method for Measurement and Characterization of River Meander Wavelength, W85-03168 1806 2E

**SINTON, A.**  
Effects of Artificial Freshets on Substratum Composition, Benthic Invertebrate Fauna and Invertebrate Drift in Two Impounded Rivers in Mid-Wales, W85-01002 1802 2E

**SINTON, L. W.**  
Groundwater Quality Survey of an Unsewered, Semi-Rural Area, W85-01633 1804 5B

Macroinvertebrates in a Sewage-Polluted Aquifer, W85-04720 1809 5C

**SIOLI, H.**  
Relation Between Tropical Rivers and the Terrestrial Environment and the Effect on Both of Human Interference (Tropische Flüsse in ihren Beziehungen zur terrestrischen Umgebung und im Hinblick auf menschliche Eingriffe), W85-00775 1802 6G

**SIPCHENKO, P. V.**  
Forms of Copper Migration in Fresh and Brackish Water Bodies (Formy Migratsii Medi v Presnykh i Solonovatovodnykh Vodoemakh), W85-06463 1812 5A

Relation of Water Transparency to Suspended Substance Content in Large Rivers and Water Bodies of the Ukraine (O Svazy Prozrachnosti Vody s Soderzhaniem Vzveshennykh Veshchestv v Krupnykh Rekakh i Vodoemakh Ukrayiny), W85-06462 1812 5G

**SIPILA, T.**  
Heavy Metals and High Pup Mortality in the Saimaa Ringed Seal Population in Eastern Finland, W85-02839 1806 5C

**SIRAJUL ISLAM, A. K. M.**  
Age and Growth of Barbus grypus Heckel from a Polluted River, W85-01451 1803 5C

**SIRANGELO, B.**  
Flood-Induced Bed Changes in Alluvial Streams, W85-05004 1810 2E

**SIRVINS, A.**  
Ecological Monitoring of Aqueous Effluents from Petroleum Refineries, W85-05582 1810 5A

**SISNEROS, D.**  
Herbicultural Residues and Environmental Effects from the Experimental Application of Two 2,4-D Formulations to Control Eurasian Watermilfoil, W85-05308 1810 5C

**SITNIN, O. V.**  
Examples of a Combined Layout of Hydrostations under Confined Mountainous Conditions, W85-00495 1801 8A

Experience in Operating the Structures of the Mansour Eddahbi Hydropower Development, W85-00502 1801 4A

**SITNYANSKII, A. I.**  
Experience in Reconstructing the Radial Gate of the Spillway at the Vilyui Hydroelectric Station, W85-06708 1812 8C

**SIUDA, W.**  
Factors Affecting Alkaline Phosphatase Activity in a Lake (Short-Term Experiments), W85-00226 1801 2H

Longterm Studies on Alkaline Phosphatase Activity (APA) in a Lake with Fish-Aquaculture in Relation to Lake Eutrophication and Phosphorus Cycle, W85-05726 1810 5C

Phosphatases and Their Role in Organic Phosphorus Transformation in Natural Waters. A Review, W85-04613 1809 2K

**SIVERTSEN, A.**  
Estimated Pollution Loadings from Norwegian Fish Farms. I. Investigations 1978-1979, W85-00114 1801 5B

**SIVRIEV, I. K.**  
Stability of the Stationary State of a Eutrophic Water Pool, W85-06277 1812 5C

**SIXT, H.**  
Design and Performance of Egg-Shaped Digesters for Combined Sludge and Industrial Wastewater Treatment, W85-05550 1810 5D

**SJOBECK, M.-L.**  
Biochemical and Hematological Studies on Perch, Perca fluviatilis, from the Cadmium-Contaminated River Eman, W85-00272 1801 5C

Effects of Lead on delta-Aminolevulinic Acid Dehydratase Activity, Growth, Hemoglobin Content, Reproduction in Daphnia magna, W85-06745 1812 5C

**SJOBERG, S.**  
Equilibrium Approaches to Natural Water Systems - Part 4; Determination of Alkalinity of Organic Bases in an Anoxic Hypolimnetic Lake Water, W85-04074 1808 2K

**SJOGREN, R. E.**  
Assay for Biologically Available Phosphorus Using Proteolytic Aeromonas hydrophila, W85-02285 1805 5A

**SJOSTROM, P.**  
Animal Community Structure as a Function of Stream Size, W85-00426 1801 2H

**SKAANE, R.**  
Effect of Highway Runoff on Lake Water Quality, W85-00747 1802 5B

**SKAFEL, M. G.**  
Suspended Sediment Distribution in Wave Field, W85-01501 1803 2J

**SKAGGS, J. W.**  
Waterborne Outbreak of Hepatitis A in Meade County, Kentucky, W85-04658 1809 5C

**SKAGGS, R. W.**  
Effect of Drain Tube Openings on Drainage and Subirrigation, W85-04748 1809 4A

## AUTHOR INDEX

### SKAGGS, R. W.

Effect of Soil Surface Conditions on Infiltration for Shallow Water Table Soils, W85-06087 1811 2G

Stream Water Levels Affect Field Water Tables and Corn Yields, W85-04726 1809 2F

**SKALTAS, H.**  
Real-Time Flood Forecasting Technique, W85-03708 1807 4A

**SKARE, J. U.**  
Time Trends of Organochlorine Chemical Residues in Seven Sedentary Marine Fish Species from a Norwegian Fjord during the Period 1972-1982, W85-04365 1808 5B

**SKAU, C. M.**  
Techniques for Evaluating Spatial and Temporal Variability in Surface Water Quality as Related to Soil Moisture and Subsurface Water Flux in Forested Watersheds, W85-00860 1802 5B

**SKEFFINGTON, R. A.**  
Chemistry of Bulk Precipitation at a Site in Southeast England - I. Small-Scale Spatial Variation, Frequency Distributions and Variation with Time, W85-02732 1806 2K

Chemistry of Bulk Precipitation at a Site in Southeast England - II. Relationships Between Ions and Comparison with Other Sites, W85-02733 1806 2K

**SKELTON, J.**  
Hydrology of Area 38, Western Region, Interior Coal Province, Iowa and Missouri, W85-00597 1802 5B

Hydrology of Carbonate Terrane - Niangua, Osage Fork, and Grandglaize Basins, Missouri, W85-00582 1802 2F

**SKENE, E. T.**  
Impact of Bridging on Floodplains, W85-06067 1811 6G

**SKERGAN, T. M.**  
Solar Earth-Water Distillation for Wet Sand, W85-06073 1811 2G

**SKERGET, P.**  
Diffusion-Convection Problems Using Boundary Elements, W85-04160 1808 2A

**SKIBA, S. L.**  
Engineering-Geologic Surveys and Forecasts for Hydrotechnical Construction on Slump-Prone Loess Soils, W85-06591 1812 8D

**SKIERKOWSKI, P.**  
Biodegradation of (14C)Phenol in Secondary Sewage and Landfill Leachate Measured by Double-Vial Radiorespirometry, W85-06145 1811 5B

**SKILLICORN, P.**  
Boiling of Drinking-Water: Can a Fuel-Scarce Community Afford It, W85-06217 1812 5F

**SKILLINGS, J. H.**  
Acute Toxicity of Copper to Three Life Stages of *Chironomus tentans* as Affected by Water Hardness-Alkalinity, W85-04946 1809 5C

**SKINNER, R. H.**  
Interrelation of Water Quality, Gill Parasites, and Gill Pathology of Some Fishes from South Biscayne Bay, Florida, W85-00687 1802 5C

**SKINNER, W. F.**  
Distribution of Fishes in the Brodhead Creek Drainage Monroe County, Pennsylvania, W85-03067 1806 2H

**SKIRKEVICIUS, A. L.**  
Artificial Aeration of Rivers in Lithuania, W85-06629 1812 5G

**SKIRROW, G.**  
Major Ion and Carbonate System Chemistry of a Navigable Freshwater Canal, W85-02841 1806 5B

**SKOCZEN, I.**  
Effect of Rain Waters on Lead Level in the Vistula in the Region of Cracow Agglomeration, W85-00230 1801 5C

Effect of Rain Waters on Salinity Variation of the Vistula in the Region of Cracow Agglomeration (on the Example of Chlorides), W85-00231 1801 5C

Influence of Urban Runoff on the Water Pollution of the Vistula in the Region of Cracow Agglomeration, W85-00222 1801 5B

**SKOGERBOE, G. V.**  
Improvement and Sensitivity Analysis of the CORNGRO Model, W85-01304 1803 3F

Optimizing Salinity Control Strategies for the Upper Colorado River Basin, W85-06960 1812 5C

**SKOPINTSEV, B. A.**  
Energy Reserve in Organic Matter and in Some Reduced Mineral Compounds of the Black Sea (Zapas Energii v Organicheskem Veshchestve i Nekotorykh Vostostanovlyenniyakh Mineral'nykh Soedineniyakh vod Chernogo Morya), W85-06456 1812 2L

**SKOROBATOV, M. A.**  
Selecting Sites of Projected Fish Passes, W85-00159 1801 8I

**SKRIPKO, E. S.**  
Deformation of the Rock Mass During Construction of the Nurek Hydroelectric Station, W85-03580 1807 8E

**SKULBERG, O. M.**  
Toxic Blue-Green Algal Blooms in Europe: A Growing Problem, W85-03199 1806 5C

**SKURLATOV, YU. I.**  
Redox State and Seasonal Toxicity of Natural Water, W85-04363 1808 5B

**SKUSE, T. S.**  
Chicago Experience in Large-Scale Land Application, W85-05058 1810 5E

**SLACK, D. C.**  
Predicting Direct Recharge of Surficial Aquifers, W85-06080 1811 2F

Tilted Soil Subsidence During Repeated Wetting, W85-03377 1807 2G

**SLACK, J. R.**  
Nonparametric Trend Test for Seasonal Data with Serial Dependence, W85-01347 1803 2A

**SLACK, L. J.**  
Hydrology of an Abandoned Coal-Mining Area near McCurtain, Haskell County, Oklahoma, W85-02041 1804 5B

**SLADE, J. S.**  
Viruses and Drinking Water, W85-06577 1812 5F

**SLADE, R. C.**  
Red Hill Disposal Site: A Case Study, W85-05368 1810 5E

**SLADE, R. M. JR.**  
Effects of Storm-Water Runoff on Water Quality of the Edwards Aquifer near Austin, Texas, W85-03914 1808 5B

**SLADKEVICH, M. S.**  
Reflection of a Surge from a Vertical Wall, W85-00454 1801 2E

**SLAGLE, S. E.**  
Water Resources of the Fort Union Coal Region, East-Central Montana, W85-01772 1804 2F

**SLATER, C. S.**  
Ultrafiltration Processes for the Characterization and Separation of Landfill Leachates, W85-04985 1810 5A

**SLATER, J.**  
Effects of Metals on Nitrogen Fixation and Denitrification in Slurries of Anoxic Saltmarsh Sediment, W85-02539 1805 5C

**SLATTERY, E. R.**  
Finding an Acceptable Approach for Disposal of Coal Combustion Residues in California, W85-05376 1810 5E

**SLAVEK, J.**  
Interaction of Clays with Dilute Fluoride Solutions, W85-02928 1806 2K

**SLAVICEK, E.**  
Geochemical Pathways and Biological Uptake of Radium in Small Canadian Shield Lakes, W85-00153 1801 5B

**SLAYMAKER, O.**  
Land Use Effects on Sediment Yield and Quality, W85-02060 1804 6G

**SLEATH, J. F. A.**  
Suspension of Sand by Waves, W85-00525 1802 2J

**SLEPUKHINA, T. D.**  
Comparison of Different Methods of Water Quality Evaluation by Means of Oligochaetes, W85-02775 1806 5C

**SLETTEN, K. K.**  
Possible Relationships Between Surface Water Chemistry and Aquatic Plants in the Northern Great Plains, W85-04697 1809 2H

**SLEZAK, L. A.**  
Application and Effectiveness of Slow Sand Filtration in the United States, W85-04405 1808 5F

**SLIEPCEVICH, C. M.**  
Comparison of the Thermal Regimes for Freezing and Thawing of Moist Soils, W85-05806 1810 2C

**SLIFKER, R. A.**  
Elimination of Ammonia Interference in the Purge-and-Trap GC Determination of Organohalogens in Water, W85-02811 1806 5A

Simplified Liquid-Liquid Extraction Method for Analysis of Trihalomethanes in Drinking Water, W85-00697 1802 5A

**SLINN, D. J.**  
Physical Hydrology of a Lagoon System on the Pacific Coast of Mexico, W85-03499 1807 2L

## AUTHOR INDEX

<b>SLIWKA, I.</b>			<b>SMITH, D. G.</b>
New Models for Interpreting Data on the Content of Environmental Tracers in Groundwaters and Their Combined Use, W85-04135	1808 2F		
<b>SLOAN, F. J.</b>			
Removal of Metal Ions from Wastewater by Algae, W85-05426	1810 5D		
<b>SLOAN, P. G.</b>			
Modeling Subsurface Stormflow on Steeply Sloping Forested Watersheds, W85-03987	1808 2A		
<b>SLOAN, R.</b>			
Mercury Levels in Brook Trout ( <i>Salvelinus fontinalis</i> ) from Selected Acid and Limed Adirondack Lakes, W85-00204	1801 5C		
<b>SLOAN, W. H.</b>			
Irrigation of Public Use Areas by Land Application of Combined Industrial and Domestic Waste Effluent, W85-01740	1804 5D		
<b>SLOANE, R. D.</b>			
Upstream Migration by Young Pigmented Freshwater Eels ( <i>Anguila australis australis</i> Richardson) in Tasmania, W85-00131	1801 6G		
<b>SLOEY, W. E.</b>			
Trophic Status of the Winnebago Pool Lakes, W85-00829	1802 5C		
<b>SLOTA, H.</b>			
Operation of Reservoir Systems with Special Reference to the Upper Wisla, W85-04102	1808 6A		
<b>SLOTTA, L. S.</b>			
Shoaling of Port of Astoria, Oregon, by Sediment from Mt. St. Helens Eruption, W85-06302	1812 2J		
<b>SLOWEY, J. F.</b>			
Movement of Nitrogen Species Through Three Soils below Septic Fields, W85-01293	1803 5B		
<b>SLOZHENIKIN, V. V.</b>			
Development of a Manufacturing Method for Precast Elements of Reinforced-Concrete Pipes of the Zagorsk Pumped-Storage Station using Electric Heating of the Concrete Mix, W85-00440	1801 8D		
<b>SLY, P. G.</b>			
Comparison of Sediment Energy-Texture Relationships in Marine and Lacustrine Environments, W85-02058	1804 2J		
Lake Trout ( <i>Salvelinus namaycush</i> ) Spawning Habitat in Seneca Lake, New York, W85-00924	1802 2H		
Sedimentology and Geochemistry of Modern Sediments in the Kingston Basin of Lake Ontario, W85-04714	1809 2H		
<b>SLY, W. K.</b>			
Comparison of Modelled Soil Water Reserves on Canadian Prairie Soils with Water-Holding Capacities of 280 and 250 mm, W85-06152	1811 2G		
Estimated Soil Water Reserves Applicable to a Wheat-Fallow Rotation for Generalized Soil Areas Mapped in Southern Saskatchewan, W85-04355	1808 2G		
<b>SMAL, H.</b>			
Preliminary Estimate of Nutrient Run-off into Two Lakes in the Lecczynsko-Wlodawskie Lake District Throughout a Year, W85-02508	1805 5B		
<b>SMALL, E. B.</b>			
Influence of Water Temperature, Salinity, and pH on Survival and Growth of Toxigenic <i>Vibrio cholerae</i> Serovar O1 Associated with Live Copropods in Laboratory Microcosms, W85-02601	1805 5B		
<b>SMALL, J. W. JR.</b>			
Phytoplankton Responses to Reduction and Elimination of Submerged Vegetation by Herbicides and Grass Carp in Four Florida Lakes, W85-04857	1809 5G		
<b>SMALL, M. J.</b>			
Atmospheric Trajectory Models for Diagnosing the Sources of Acid Precipitation, W85-05314	1810 5B		
<b>SMALL, T. A.</b>			
Hydrostratigraphic Subdivisions and Fault Barriers of the Edwards Aquifer, South-Central Texas, U.S.A., W85-00008	1801 2F		
<b>SMART, C. C.</b>			
Castleguard Karst, Main Ranges, Canadian Rocky Mountains, W85-00016	1801 2F		
<b>SMART, M. M.</b>			
Bibliography to Upper Mississippi River Aquatic and Wetland Plant Literature, W85-06871	1812 2H		
Factors Related to Algal Biomass in Missouri Ozark Streams, W85-05667	1810 2H		
Stream-Watershed Relations in the Missouri Ozark Plateau Province, W85-06620	1812 6G		
<b>SMART, P. L.</b>			
Environmental Impact of an Opencast Operation in the Forest of Dean, England, W85-03824	1808 4C		
<b>SMEDBERG, R. C.</b>			
Emergency: Intrusion of Propane into Water Mains, W85-07063	1812 5F		
<b>SMEDDEMA, L. K.</b>			
Furrow Irrigation Design for Vertisols, W85-06280	1812 3F		
<b>SMIL'TNEK, A. I.</b>			
Seismic Stability of the Mingechaur Dam, W85-03578	1807 8A		
<b>SMIL, V.</b>			
Acid Rain: Critical Review of Monitoring Baselines and Analyses, W85-06126	1811 5A		
<b>SMILES, D. E.</b>			
Water Relations of Saturated Bentonite: Some Effects of Temperature and Solution Salt Concentration, W85-05186	1810 2G		
<b>SMILEY, B. D.</b>			
Effects of Oil on Marine Mammals, W85-05591	1810 5C		
<b>SMIRNOV, B. P.</b>			
Effect of Mercury on the Respiration Rate of Larval Pink Salmon, <i>Oncorhynchus gorbuscha</i> , W85-02853	1806 5C		
<b>SMIRNOV, E. A.</b>			
Canals Under Blizzard Conditions, W85-03581	1807 8A		
<b>SMIRNOV, N. N.</b>			
Attempt at Ecological Prognosis of the Plankton in the Man-Made Lake Parana Medio (Cnapanon Transect), Argentina, W85-02407	1805 2H		
		<b>PA-241</b>	

## AUTHOR INDEX

**SMITH, D. G.**

William River: An Outstanding Example of Channel Widening and Braiding Caused by Bed-Load Addition, W85-00981	1802 2J	<b>SMITH, J. E. JR.</b>	Utilization of Municipal Wastewater and Sludge on Land, W85-00679	1802 5E	<b>SMITH, R. D.</b>	Interactive Computer Modeling, Monitoring, and Control of Melbourne's Water Supply System, W85-05492	1810 5F
<b>SMITH, D. L.</b>		<b>SMITH, J. L.</b>	Ten Years of Experience with Subsurface Injection, W85-06086	1811 5D	<b>SMITH, R. E.</b>	Program Management Keeps Anchorage Water Project on Schedule, W85-05486	1810 6A
Electrical Resistivity Investigation of Potential Cavities Underlying a Proposed Ash Disposal Area, W85-02861	1806 5G	<b>SMITH, J. N.</b>	Significance of Natural and Anthropogenic Sediment Inputs to the Saguenay Fjord, Quebec, W85-01053	1802 2J	<b>SMITH, R. G.</b>	Process Design Manual, Land Treatment of Municipal Wastewater, W85-05194	1810 5D
<b>SMITH, D. W.</b>		<b>SMITH, K. V. H.</b>	Simulation of Channel Steepening in the Marala-Ravi Link Canal, W85-06580	1812 2J	Rainfall and Overland Flow Performance, W85-00721	1802 5D	
Cold Climate Facultative Lagoons, W85-04048	1808 5D	<b>SMITH, L.</b>	Analysis of the Influence of Fracture Geometry on Mass Transport in Fractured Media, W85-02666	1805 2F	<b>SMITH, R. G. JR.</b>	Trace Metal Composition of and Accumulation Rates of Sediments in the Upper Gulf of Thailand, W85-02654	1805 5B
Evaluation of Water Bleeder Controls, W85-05301	1810 8C	<b>SMITH, L. J.</b>	Thermal Effects of Three-Dimensional Groundwater Flow, W85-04339	1808 2F	<b>SMITH, R. J. F.</b>	Effects of Acute Exposure to Acidified Water on the Behavioral Response of Fathead Minnows, <i>Pimephales promelas</i> , to Chemical Feeding Stimuli, W85-06382	1812 5C
Manual for Land Application of Treated Municipal Wastewater and Sludge, W85-04213	1808 5D	<b>SMITH, L. M.</b>	Sewage Treatment in Abu Dhabi, W85-04009	1808 5D	<b>SMITH, R. L.</b>	Average Annual Fulfillment of Instream Uses, W85-03066	1806 6D
Microorganism Survival in an Ice-Covered River, W85-01708	1804 5B	<b>SMITH, L. M.</b>	Treatment of Sewage for Use in Municipal Irrigation in Abu Dhabi, UAE, W85-04464	1809 5D	Effect of Organic Contamination upon Microbial Distributions and Heterotrophic Uptake in a Cape Cod, Mass., Aquifer, W85-03736	1807 5C	
Study of Water Bleeder Control Alternatives, W85-04922	1809 3D	<b>SMITH, L. M.</b>	Fire and Herbivory in a Great Salt Lake Marsh, W85-04825	1809 2L	Quantifying the Relative Performance of Alternative Measures for Fulfilling Instream Uses in the Plains Environment, W85-02107	1804 6B	
Water Conservation in Barrow, Alaska, W85-04918	1809 6B	<b>SMITH, L. M.</b>	Marsh Plant Establishment on Newly Flooded Salt Flats, W85-03811	1808 4A	<b>SMITH, S. B.</b>	Ten Years of Experience with Subsurface Injection, W85-06086	1811 5D
<b>SMITH, E. D.</b>		<b>SMITH, L. M.</b>	Predictions of Vegetation Change Following Fire in a Great Salt Lake Marsh, W85-05608	1810 2H	<b>SMITH, S. D.</b>	Moisture Stress Effects on Biomass Partitioning in Two Sonoran Desert Annuals, W85-00089	1801 2I
Aquifer Test Analysis in Nonradial Flow Regimes: A Case Study, W85-05837	1810 2F	<b>SMITH, L. M.</b>	Modelling Water Flow through Undisturbed Soil Cores Using a Transfer Function Model Derived from 3HOH and Cl transport, W85-01326	1803 2G	<b>SMITH, S. J.</b>	Effect of Disturbed Soil Thickness on Soil Water Use and Movement under Perennial Grass, W85-05190	1810 2I
<b>SMITH, E. J.</b>		<b>SMITH, N. D.</b>	William River: An Outstanding Example of Channel Widening and Braiding Caused by Bed-Load Addition, W85-00981	1802 2J	<b>SMITH, S. J.</b>	Runoff, Soil, and Nutrient Losses from Rangeland and Dry-Farmed Cropland in the Southern High Plains, W85-05970	1811 5B
Attempts to Alleviate Fish Losses from Allegheny Reservoir, Pennsylvania and New York, Using Acoustics, W85-02373	1805 5G	<b>SMITH, P. K.</b>	Role of the Littoral (Shallow) Zone in Reservoir Productivity, W85-06654	1812 2H	<b>SMITH, S. L.</b>	Leaf Litter Processing Rates in Four Texas Streams, W85-02247	1805 2H
Empingham Reservoir - Seepage Control Measures, W85-06175	1812 8E	<b>SMITH, P. L.</b>	Area-Time Integral as an Indicator for Convective Rain Volumes, W85-01542	1803 2B	<b>SMITH, S. R.</b>	Comparison of Solvent Reduction Methods for Concentration of Polycyclic Aromatic Hydrocarbon Solutions, W85-03670	1807 5A
<b>SMITH, F. T.</b>		<b>SMITH, R.</b>	Contaminant Dispersion as Viewed from a Fixed Position, W85-07084	1812 5B	<b>SMITH, T. P.</b>	Land Treatment of Municipal Wastewater: Selected Examples in the United States, W85-05324	1810 5D
Alternative Approach to Linear and Nonlinear Stability Calculations at Finite Reynolds Numbers, W85-03749	1807 8B	<b>SMITH, R.</b>	Organization and Evaluation of Interlaboratory Comparison Studies among Southern African Water Analysis Laboratories, W85-02117	1804 5A	<b>SMITH, T. P.</b>	Land Treatment of Municipal Wastewater: Selected Examples in the United States, W85-05324	1810 5D
<b>SMITH, G. D.</b>		<b>SMITH, R.</b>	Should Sewage be Discharged at the Water Surface or Near the Bed, W85-07086	1812 5E	<b>SMITH, V. C.</b>	Pharmacopeia Requirements and Water Standards in the United States of America, W85-06627	1812 6D
Influence of Non-Uniform Temperature Distribution on the Steady Motion of Ice Sheets, W85-00173	1801 2C	<b>SMITH, R.</b>	Temporal Moments at Large Distances Downstream of Contaminant Release in Rivers, W85-00174	1801 5B	<b>SMITH, V. H.</b>	Effects of Phosphorus Fertilization on Phytoplankton Biomass and Phosphorus Retention in Subarctic Quebec Lakes, W85-02635	1805 2H
<b>SMITH, H.</b>		<b>SMITH, R.</b>					
Land Use, Runoff and Recharge on Selected Watersheds in the U.S. Virgin Islands, W85-01799	1804 4C						
<b>SMITH, H. A.</b>							
Implementation of a User Charge System Incorporating a Dedicated Ad Valorem Tax Structure, W85-05277	1810 6C						
<b>SMITH, J. A.</b>							
Statistical Inference for Point Process Models of Rainfall, W85-04794	1809 2B						
<b>SMITH, J. D.</b>							
Aromatic Hydrocarbons in Waters of Port Phillip Bay and the Yarra River Estuary, W85-01644	1804 5B						
Bed Load Transport in a River Meander, W85-03161	1806 2J						
Model for Flow in Meandering Streams, W85-02671	1805 2E						
Simultaneous Spectrophotometric Determination of Humic Acid and Iron in Water, W85-01077	1802 5A						
Uptake of Cadmium by the Seagrass <i>Heterozosteria tasmanica</i> from Corio Bay and Western Port, Victoria, W85-00784	1802 5B						

## AUTHOR INDEX

**SOLLINS, P.**

Nitrogen and Phosphorus Dependence of Algal Biomass in Lakes: An Empirical and Theoretical Analysis, W85-01603	1803	2H	
<b>SMITH, Z. A.</b> Centralized Decisionmaking in the Administration of Groundwater Rights: The Experience of Arizona, California and New Mexico and Suggestions for the Future, W85-04191	1808	4B	
<b>SMITS, A. J. M.</b> Impact of Acidification and Eutrophication on Macrophyte Communities in Soft Waters. II. Experimental Studies, W85-01889	1804	5C	
<b>SMITS, J. G. C.</b> Modelling Eutrophication in Shallow Dutch Lakes, W85-04551	1809	5C	
Modelling the Eutrophication Process of Lake IJssel, W85-00578	1802	5C	
<b>SMOL, J. P.</b> Postglacial Changes in Algal and Cladoceran Assemblages in Little Round Lake, Ontario, W85-06392	1812	2H	
<b>SMOLEN, M. D.</b> Finite Element Storm Hydrograph Model, W85-05343	1810	2A	
Selecting Critical Areas for Nonpoint-Source Pollution Control, W85-05950	1811	5G	
Systems Approach for Agricultural Land Management and Water Quality Control, W85-03390	1807	2J	
<b>SMOLLER, J.</b> Extra Effort Wins Water Quality Payoffs, W85-06817	1812	5D	
<b>SMYTH, W. F.</b> Electroanalysis of Organic Pollutants in Aquatic Matrices, W85-02310	1805	5A	
<b>SNIFFEN, R. P.</b> Effects of Stream Channelization on Exports of Nitrogen and Phosphorus from North Carolina Coastal Plain Watersheds, W85-00979	1802	6G	
<b>SNODGRASS, R. D.</b> Deepwater Sediments and Trophic Conditions in Florida Lakes, W85-02099	1804	2H	
<b>SNODGRASS, W. J.</b> Experimental Measurement of Sediment Nitrification and Denitrification in Hamilton Harbour, Canada, W85-02070	1804	2H	
Flux of Reduced Chemical Constituents ( $Fe(2+)$ , $Mn(2+)$ , $NH4(+)$ and $CH4$ ) and Sediment Oxygen Demand in Lake Erie, W85-02087	1804	2H	
Lake Ontario Oxygen Model. 1. Model Development and Application, W85-04801	1809	2H	
Lake Ontario Oxygen Model. 2. Errors Associated with Estimating Transport Across the Thermocline, W85-04802	1809	2H	
Model for Lake-Bay Exchange Flow, W85-06864	1812	2L	
Sensitivity Analysis of Reservoir Oxygen Model, W85-04585	1809	2H	
<b>SNOEYINK, V. L.</b> Achieving Biologically Stable Drinking Water, W85-03624	1807	5F	
Technical Note: Monochloramine Removal from Water by Activated Carbon, W85-05477	1810	5F	
<b>SNOUSSI, M.</b> Behaviour of Pb, Zn, Ni, and Cu in the Sediments of the Loukkos Estuary and the Close Shelf (Atlantic Coast of Morocco) (Comportement Du Pb, Zn, Ni, et Cu Dans les Sédiments de l'Estuaire du Loukkos et du Proche Plateau Continental (Côte Atlantique Marocaine)), W85-02293	1805	5B	
<b>SNOW, N.</b> Effects of Petroleum Hydrocarbons on Phytoplankton and Macrophytes, W85-05586	1810	5B	
<b>SNOW, P. D.</b> Temperature and Light Effects on the Growth of <i>Potamogeton crispus</i> in Collins Lake, New York State, W85-05523	1810	4A	
<b>SNOW, R. E.</b> Leachate Collection System Performance Analysis, W85-02261	1805	5G	
<b>SNYDER, G. H.</b> Evapotranspiration and Water Use Efficiency of Taro, W85-06081	1811	2D	
Moisture Sensor-Controlled Irrigation for Maintaining Bermudagrass Turf, W85-03363	1807	3F	
Moisture Sensor-Controlled Irrigation for Reducing N Leaching in Bermudagrass Turf, W85-06187	1812	5G	
<b>SNYDER, R. M.</b> Effects of Instream Flow Requirements on Water Supply Reliability, W85-06498	1812	6D	
<b>SNYDER, W. M.</b> Return Period Analysis of Minimum Events Using Sliding Polynomials, W85-01194	1803	6A	
<b>SO, H. B.</b> Effects of Soil Bulk Density and Water Regimen on Root Growth and Uptake of Phosphorus by Ryegrass, W85-06098	1811	2G	
<b>SOBALLE, D. M.</b> Influence of Reservoir Transit on Riverine Algal Transport and Abundance, W85-03829	1808	2H	
<b>SOBEY, R. J.</b> Initial Transients in Long Wave Computations, W85-03008	1806	8B	
Numerical Alternatives in Transient Stream Response, W85-00728	1802	8B	
<b>SOBOLIK, F. J.</b> Stored Available Soil Water and the Fallow/Recrop Decision-Critical Level Approach, W85-02874	1806	2I	
<b>SOBSEY, M. D.</b> Effects of Bentonite Clay Solids on Poliovirus Concentration from Water by Microporous Filter Methods, W85-06141	1811	5A	
<b>SOCCI, R.</b> Inhibition of Essential Amino Acid Absorption in Marine Fishes by Mercury, W85-05887	1811	5C	
<b>SODERGREN, A.</b> Small-scale Temporal Changes in the Biological and Chemical Composition of Surface Micro-layers in a Eutrophic Lake, W85-04538	1809	2H	
<b>SOEDER, C. J.</b> Coprecipitation of Microalgal Biomass with Calcium and Phosphate Ions, W85-04498	1809	5F	
Mass Cultivation of Planktonic Freshwater Algae for the Production of Extracellular Organic Matter (EOM), W85-07026	1812	2H	
<b>SOENKSEN, P. J.</b> Water Resources Data, Iowa, Water Year 1982, W85-01931	1804	2E	
<b>SOHRABI, H.</b> Toxicity and Trace Analysis of Tensides in Water (Zur Toxizität und Spurenanalyse von Tensiden in Wasser), W85-06272	1812	5A	
<b>SOHRABI, T.</b> Disposal of Secondary Treated Municipal Sewage by Subsurface Irrigation, W85-00060	1801	5E	
<b>SOIN, S. G.</b> Combined Effect of Salinity and Triethyl Stanic Chloride on the Development of the Marine Forms of Three-Spine Stickleback, <i>Gasterosteus aculeatus</i> (Gasterosteidae), W85-05750	1810	5C	
<b>SOINTIO, J. E.</b> Anaerobic-Aerobic Treatment of a Wheat Starch Plant Effluent: A Case History, W85-05564	1810	5D	
<b>SOIVIO, A.</b> Gill Damage as a Determinant of Residual Oxygen Concentration in the Sealed Jar Test, W85-05015	1810	5A	
<b>SOJKA, S. A.</b> Enhanced Biological Treatment of Leachates from Industrial Landfills, W85-05299	1810	5D	
Use of a Rapid Bioassay for Assessment of Industrial Wastewater Treatment Effectiveness, W85-05570	1810	5A	
<b>SOKOLOV, YU. N.</b> Determination of the Hydraulic Roughness of a Vegetated Floodplain, W85-00437	1801	2E	
<b>SOLAK, M.</b> Computer-Assisted Data Processing and Analysis System for Ground-Based Meteorological Data Collection, W85-06924	1812	7C	
Precipitation Gage Network Operations for Wintertime Research in the Central Sierra Nevada, W85-06925	1812	2B	
<b>SOLBAKKEN, J. E.</b> Comparative Study on the Fate of the Polychlorinated Biphenyl 2,4,5,2',4',5'-Hexachlorobiphenyl and the Polycyclic Aromatic Hydrocarbon Phenanthrene in Flounder ( <i>Platichthys flesus</i> ), Determined by Liquid Scintillation Counting and Autoradiography, W85-03511	1807	5C	
<b>SOLLEY, W. B.</b> Estimated Use of Water in the United States in 1980, W85-00042	1801	6D	
<b>SOLLINS, P.</b> Composition and Possible Origin of Detrital Material in Streams, W85-04827	1809	2J	

## AUTHOR INDEX

**SOLLITI, P.**

**SOLLITI, P.**  
Incorporation of Phenol Carbon at Trace Concentrations by Phenol-Mineralizing Microorganisms in Fresh Water, W85-04257 1808 5B

**SOLOMON, K. R.**  
Dissipation of Permethrin in Limnocorals, W85-04838 1809 5B

**SOLOVEV, I. R.**  
Experience in Vibration Tests and Balancing Rotors of Large Turbine-Generator Units, W85-06706 1812 8C

**SOLOVEVA, Z. I.**  
Experience in the Operation of Hydraulic Structures and Equipment of Hydroelectric Stations, W85-05825 1810 8D

Experience in the Operation of Hydraulic Structures and Equipment of Hydroelectric Stations; Left-Bank Dam of the Bratsk Hydroelectric Station, W85-05990 1811 8D

**SOLT, G. S.**  
Packaged Boilers: Their Role in Water Pollution, W85-06628 1812 5B

**SOLTERO, R. A.**  
Cause of Continued Hypolimnetic Anoxia in Long Lake, WA, Following Advanced Wastewater Treatment by the City of Spokane, W85-04317 1808 5C

**SOLVIK, O.**  
Underwater Piercing of a Tunnel, W85-04415 1809 8A

**SOLYMAR, Z. V.**  
Earth Foundation Treatment at Jebba Dam Site, W85-01871 1804 8D

**SOMA, M.**  
Characterization of Sediment Reference Materials by X-Ray Photoelectron Spectroscopy, W85-06250 1812 2H

**SOMASHEKAR, R. K.**  
Biological Assessment of Water Pollution: A Study of the River Kapila, W85-05033 1810 5A

Fluoride Concentration in the Water of the River Cauvery, Karnataka, India, W85-05448 1810 5B

Phytoplankton Constituents as Indicator of Water Quality: A Study of the River Cauvery, W85-05030 1810 5A

Trace Metal Concentrations of the Waters of a South Indian River, W85-01751 1804 5B

**SOMASUNDARAM, B.**  
Effects of Zinc on the Ultrastructure of the Brain Cells of the Larvae of *Clupea harengus* L., W85-03689 1807 5C

**SOMAYAJULU, B. L. K.**  
Composition of Mineral Fractions of the Narbada and Tapti Estuarine Particles and the Adjacent Arabian Sea Sediments off Western India, W85-04373 1808 2L

Mixing and Cycling of Uranium, Thorium and 210-Pb in Puget Sound Sediments, W85-03209 1806 2L

**SOMERS, L.**  
Seasonal Study of Methane Oxidation in Lake Washington, W85-02134 1804 2H

**SOMLYODY, L.**  
Water-Quality Modelling: A Comparison of Transport-Oriented and Ecology-Oriented Approaches, W85-01116 1802 5B

**SOMMER, E.**  
Demands Placed on Processing Plants by Developments in Legislation for the Protection of Water (Anforderungen an verfahrenstechnische Anlagen durch die Weiterentwicklung der Gewasserschutz-Vorschriften), W85-05982 1811 6E

**SOMMERFELDT, T. G.**  
Use of Tempe Cell, Modified to Restrain Swelling, for Determination of Hydraulic Conductivity and Soil Water Content, W85-00155 1801 2G

**SOMOSI, G.**  
Toxicological Investigation and Evaluation of Drinking-Water Pollution Caused by Chemical Wastes, W85-02696 1806 5F

**SONCINI-SESSA, R.**  
Min-Max Approach to Reservoir Management, W85-03552 1807 4A

**SONDEREGGER, J. L.**  
Interaction Between Groundwater and Surface Water Regimes and Mining-Induced Acid Mine Drainage in the Stockett-Sand Coulees Coal Field, W85-00583 1802 5B

**SONDERGAARD, M.**  
Diel Variation in Concentration, Assimilation and Respiration of Dissolved Free Amino Acids in Relation to Planktonic Primary and Secondary Production in Two Eutrophic Lakes, W85-00994 1802 2H

Dissolved Organic Carbon in Danish Lakes: Concentration, Composition, and Lability, W85-04540 1809 5C

**SONG, L.**  
Karst Development and the Distribution of Karst Drainage Systems in Dejiang, Guizhou Province, China, W85-00001 1801 2G

**SONI, L.**  
Fate of Chlorine and Chloramines in Cooling Towers; Henry's Law Constants for Flashoff, W85-02915 1806 5B

**SONI, R.**  
Teratogenic Effects of Chromium (VI) in Environment as Evidence by the Impact on Larvae of Amphibian *Rana tigrina*: Implications in the Environmental Management of Chromium, W85-04035 1808 5C

Toxicity of Lower than Permissible Levels of Chromium (VI) to the Freshwater Teleost *Nuria denricus*, W85-03043 1806 5C

**SONICHEV, N. A.**  
Earth Dam of the Al-Hadithah Hydropower Development on the Euphrates River, W85-00505 1801 8D

**SONNANTE, G.**  
Influence of the Charge Density of Cationic Polyelectrolytes on Sludge Conditioning, W85-04494 1809 5D

**SONNEBORN, M.**  
Determination of Nitrate in Drinking Water by Means of Ion Chromatography (Nitratbestimmung im Trinkwasser mit Hilfe der Ionen-Chromatographie), W85-01608 1803 5A

**SONNENFELD, D. L.**  
Sediment Transport and Morphology at the Surf Zone of Presque Isle, Lake Erie, Pennsylvania, W85-03349 1807 2J

**SONNICHSEN, R. E.**  
Review of the Federal Emergency Management Agency's Dam Safety Programs, W85-04019 1808 6E

**SONNTAG, W. H.**  
Subsurface Storage of Freshwater in South Florida: A Prospectus, W85-00029 1801 4B

Subsurface Storage of Freshwater in South Florida: Evaluation of Surface-Water Discharge Data at Selected Sites, W85-03900 1808 4B

**SONSTEGARD, R. A.**  
Development of a Rapid, Sensitive and Quantitative Test for the Assessment of the Effects of Xenobiotics on Reproduction in Fish, W85-05895 1811 5A

Proximate Composition and Organochlorine and Heavy Metal Contamination of Eggs from Lake Ontario, Lake Erie and Lake Michigan Coho Salmon (*Oncorhynchus kisutch* Walbaum) in Relation to Egg Survival, W85-06436 1812 5C

**SONTAKKE, N. A.**  
Droughts over Peninsular India During 1861-1880 and Associated Circulation Features, W85-05082 1810 2B

**SOON, Y. K.**  
Arylsulphatase Activity in Polluted Lake Sediments, W85-02745 1806 5C

Distribution and Isotopic Composition of Sulfur in Lake Sediments of Northern Ontario, W85-05763 1810 5B

Land Disposal of Sewage Sludge, Vol VIII: April 1, 1979 - March 31, 1980, W85-06991 1812 5E

**SOONS, J. M.**  
Precipitation Intensity and Variability at Chilton Valley, Near Cass, Southern Alps, W85-06433 1812 2B

**SOPHOCLEOUS, M.**  
Role of Specific Yield in Ground-Water Recharge Estimations: A Numerical Study, W85-04640 1809 2F

**SORBER, C. A.**  
Coliphages as Indicators of Enteric Viruses in Activated Sludge, W85-07113 1812 5A

**SOREK, S.**  
Stationary Principle for Non Conservative Systems, W85-04165 1808 2F

**SORENSEN, E. M. B.**  
Correlation between Selenium Accumulation in Sunfish and Changes in Condition Factor and Organ Weight, W85-01444 1803 5C

Histopathological, Hematological, Condition-Factor, and Organ Weight Changes Associated with Selenium Accumulation in Fish from Belews Lake, North Carolina, W85-02198 1805 5C

**SORENSEN, D. D.**  
Organizing an Information Program for Non-point Pollution Control, W85-05954 1811 5G

**SORENSEN, J. B.**  
Assurance of Reasonable Toxic Risk, W85-04190 1808 6E

**SOROKIN, A. I.**  
Change in the Hydrophysical Properties of Peat-Bog Soils after Application of Hydrolyzed Polyacrylonitrile, W85-06752 1812 3B

**SOROOSHIAN, S.**  
Analysis of Structural Identifiability: Theory and Application to Conceptual Rainfall-Runoff Models, W85-06503 1812 2A

## AUTHOR INDEX

		SPINOSA, L.
Automatic Calibration of Conceptual Catchment Models Using Derivative-Based Optimization Algorithms, W85-06502	1812 2A	
<b>SORRELL, R. K.</b> Organic Halogen Measurements: Current Uses and Future Prospects, W85-06494	1812 5A	
<b>SOSIAK, A. J.</b> Partitioning and Short-Term Persistence of Fenitrothion in New Brunswick (Canada) Headwater Streams, W85-02190	1805 5B	
<b>SOSNOWSKA, J.</b> Some Remarks on the Ecology of Algae in Heated Waters (Uwagi o ekologii glonow w wodach podgrzanych), W85-04609	1809 5C	
<b>SOTO, D.</b> Temporal and Spatial Distribution of Rotifera in a Chilean Reservoir: A Possible Effect of Impoundment Hydrodynamics, W85-02481	1805 2H	
<b>SOUKUP, C. L.</b> Bench-Scale Treatment of Lurgi Gasifier and H-Coal Wastewaters by the PACT System, W85-04037	1808 5D	
<b>SOULIOS, G.</b> Effective Infiltration into Greek Karst (Infiltration Efficace Dans Le Karst Hellenique), W85-04282	1808 2F	
<b>SOULSBY, P. G.</b> Nutrient Removal Trials and Bioassay Evaluation at Budds Farm Sewage-Treatment Works, Havant, W85-04526	1809 5D	
<b>SOUTEYRAND, E.</b> General Strategy for Security in Water Supply, W85-01990	1804 5G	
<b>SOUTHGATE, D.</b> Private and Social Cost - Benefit Perspectives and a Case Application on Reservoir Sedimentation Management, W85-04447	1809 4D	
<b>SOUTHWORTH, G. R.</b> Persistence of Phenols in Aquatic Microcosms Receiving Chronic Inputs of Coal-Derived Oil, W85-05700	1810 5B	
<b>SOUZA, F.</b> Modeling Effect of Depth on Furrow Infiltration, W85-03819	1808 3F	
<b>SOUZA, W. R.</b> Exploratory Drilling and Aquifer Testing at the Kipahulu District Haleakala National Park, Maui, Hawaii, W85-01776	1804 2F	
<b>SPAARGAREN, B.</b> Changing Boundary Conditions for the Management of Hydrogenerators; Influence on Maintenance Strategies (Geanderte Randbedingungen fur Betrieb von Wasserkraftgeneratoren und ihr Einfluss auf Instandhaltungsstrategien), W85-01257	1803 8C	
<b>SPAHR, N. E.</b> Reservoir Evaporation in Central Colorado, W85-00613	1802 2D	
<b>SPAIN, J. C.</b> Adaptation of Natural Microbial Communities to Degradation of Xenobiotic Compounds: Effects of Concentration, Exposure Time, Inoculum, and Chemical Structure, W85-00102	1801 5B	
<b>SPALDING, R. F.</b> Ground-Water Contamination and Well Construction in Southeast Nebraska, W85-04637	1809 5B	
<b>SPALIK, J.</b> Quantitative Determination of ppb Levels of Carbamate Pesticide in Water by Capillary Gas Chromatography, W85-01747	1804 5A	
<b>SPANGENBERG, D. B.</b> Use of the Aurelia Metamorphosis Test System to Detect Subtle Effects of Selected Hydrocarbons and Petroleum Oil, W85-05890	1811 5C	
<b>SPANGLER, D.</b> Pump-Probe Versatile as Hydraulic Turbines, W85-01539	1803 8C	
<b>SPANGLER, F. L.</b> Trophic Status of the Winnebago Pool Lakes, W85-00829	1802 5C	
<b>SPATZ, D. D.</b> Crossflow Membrane Technology and its Applications, W85-05506	1810 5D	
<b>SPAULDING, M. L.</b> Oil Spill Fishery Impact Assessment Model: Sensitivity to Spill Location and Timing, W85-05688	1810 5C	
<b>SPAKE, J. L.</b> Biological Treatment of High-Strength Coke-Plant Wastewater, W85-05440	1810 5D	
<b>SPEAKER, R.</b> Analysis of the Process of Retention of Organic Matter in Stream Ecosystems, W85-05664	1810 2J	
<b>SPEAR, K. F.</b> Enhance Cooling-Water Reuse with Sidestream Softening, W85-04469	1809 5F	
<b>SPECHLER, R. M.</b> Altitude and Generalized Configuration of the Top of the Floridan Aquifer, St. Johns County, Florida, W85-02050	1804 7C	
<b>SPEECHT, D. T.</b> Dissolved Silicon in the Yaquina Estuary, Oregon, W85-00661	1802 2K	
<b>SPECHT, W. L.</b> Structural, Functional, and Recovery Responses of Stream Invertebrates to Fly Ash Effluent, W85-01491	1803 5C	
<b>SPEECE, R. E.</b> Anaerobic Biological Waste Treatment, W85-03763	1807 5D	
<b>SPEIRAN, G. K.</b> Impact of Discharges from Point and Nonpoint Sources on Water Quality of the Upper Reedy River near Greenville, South Carolina, W85-03895	1808 5B	
<b>SPENCE, H. J.</b> Changes in Populations and Drift of Stream Invertebrates Following Lampricide Treatment, W85-03605	1807 5C	
<b>SPENCER, D. F.</b> Alterations in the Zooplankton Community of a Fly Ash Treated Lake, W85-00995	1802 5G	
<b>SPENCER, J. F.</b> Benthos of a Coastal Power Station Thermal Discharge Canal, W85-02542	1805 5C	
<b>SPENCER, R. J.</b> Geochemistry of Great Salt Lake, Utah I: Hydrochemistry Since 1850, W85-05761	1810 2K	
<b>SPENCER, R. W.</b> Satellite Passive Microwave Rain Rate Measurement Over Croplands During Spring, Summer and Fall, W85-04984	1810 2B	
<b>SPENGLER, R. W.</b> Geohydrologic and Drill-Hole Data for Test Well USW H-3, Nye County, Nevada, W85-03901	1808 2F	
<b>SPERLING, F.</b> Monitoring Stations and Water Quality Measurements on the River Lippe: Equipment - Results - Costs, W85-01410	1803 5A	
<b>SPERLING, K. R.</b> Gas Chromatographic-Mass Spectrometric Investigations on Lipophilic Anthropogenic Substances in Marine Organisms; I. A Clean-up Procedure Consisting of Liquid-Liquid and Reversed Phase (Octadecyl)-Partitioning, W85-04986	1810 5A	
<b>SPICER, C. W.</b> Peroxyacetyl Nitrate Solubility and Decomposition Rate in Acidic Water, W85-03594	1807 5B	
<b>SPIERS, V. L.</b> Water Resource Data, Iowa, Water Year 1982, W85-01931	1804 2E	
<b>SPIES, R. R.</b> Benthic-Pelagic Coupling in Sewage-Affected Marine Ecosystems, W85-04874	1809 5C	
<b>SPIES, R. B.</b> Hepatic Mixed-Function Oxidases in California Flatfishes Are Increased in Contaminated Environments and by Oil and PCB Ingestion, W85-01894	1804 5A	
<b>SPILLNER, A.</b> Ideas Regarding the Renovation/Restoration of Old Dams (Uberlegungen zur Sanierung alter Talsperren), W85-03253	1807 8A	
<b>SPINAZOLA, J. M.</b> Depth and Thickness of Selected Units in Upper Permian, Upper Jurassic, and Lower Cretaceous Rocks in Southwestern Kansas, W85-03921	1808 2F	
<b>SPINOSA, L.</b> Hydrologic Maps of the High Plains Aquifer, January 1981, Southwestern Kansas, W85-01930	1804 7C	
<b>SPINOSA, L.</b> Sludge Dewatering in a Conventional Plant with Phosphorus Removal - I; Analysis of Additional Costs, W85-04970	1810 5D	
<b>SPINOSA, L.</b> Sludge Dewatering in a Conventional Plant with Phosphorus Removal - II; Study on Centrifuge and Filter-Press Performance, W85-04971	1810 5D	

## AUTHOR INDEX

**SPINRAD, R. W.**

**SPINRAD, R. W.**  
Vertical Distribution of Suspended Particulate Matter in the Zaire River, Estuary and Plume, W85-03675 1807 2L

**SPLINTER, W. E.**  
Crop Moisture Stress Analysis Using Computer-Controlled Environmental Chambers and Simulated Weather Sequences, W85-06097 1811 2I

**SPOHR, G. W.**  
Dewatering by the Cambridge SDS System, W85-02993 1806 5E

**SPOMER, R. G.**  
Dissolved Nitrogen and Phosphorus in Runoff from Watersheds in Conservation and Conventional Tillage, W85-05968 1811 5B

Soil Moisture Responses to Cropping and Tillage on Western Iowa Loess Soils, W85-03391 1807 2G

**SPOSITO, G.**  
Infiltration in Swelling Soils, W85-04790 1809 2G

**SPOTILA, J. R.**  
Behavioral Thermoregulation of Largemouth Bass, Micropterus salmoides, and Bluegill, Lepomis macrochirus, in a Nuclear Reactor Cooling Reservoir, W85-01495 1803 5C

**SPOTT, D.**  
Detection of Toxic Inhibition of Biochemical Degradation in River Water (Nachweis Toxischer Hemmungen des Biochemischen Abbaus im Flusswasser), W85-06649 1812 5B

**SPRAKER, P. W.**  
Improving Effluent Quality of Petrochemical Wastewaters with Mutant Bacterial Cultures, W85-05276 1810 5D

**SPRINGER, A. M.**  
Optimization of a Wastewater Treatment Plant by the Employee Involvement Optimization System (EIOS), W85-03330 1807 5D

**SPRINGER, E. K.**  
Future of Cross-Connection Control, W85-01315 1803 5F

**SPRINGER, E. P.**  
Testing of the SPUR Hydrology Component on Rangeland Watersheds in Southwest Idaho, W85-03395 1807 2E

**SPRINGER, F. M. JR**  
Streambank Stability, W85-07082 1812 2J

**SPRINGER, H. L.**  
Oklahoma's Reach to the Clouds, W85-04208 1808 3B

**SPRINGTHORPE, V. S.**  
Long-Term Survival of Human Rotavirus in Raw and Treated River Water, W85-06137 1811 5B

Rotavirus Survival in Conventionally Treated Drinking Water, W85-00897 1802 5A

**SPROUL, O. J.**  
Inactivation of Giardia lamblia Cysts with Ozone, W85-02937 1806 5F

Inactivation of Naegleria and Giardia Cysts in Water by Ozonation, W85-02580 1805 5F

**SPURRIER, J. D.**  
Transport of Dissolved Organic Carbon through a Major Creek of the North Inlet Ecosystem, W85-01766 1804 2L

**SPYRIDAKIS, D. E.**  
Chemical Content of Snow and Effect of Melting on Cascade Mountain Lakes, W85-02329 1805 5B

**SPYROU, N.**  
Seasonal Distribution of Enteroviruses and Adenoviruses in Domestic Sewage, W85-05742 1810 5B

**SQUIRES, L.**  
Chlorine as an Algicide in a Conventional Water Treatment Plant, W85-01749 1804 5F

**SQUIRES, R. R.**  
Flood Potential of Forty-mile Wash and its Principal Southwestern Tributaries, Nevada Test Site, Southern Nevada, W85-02037 1804 2E

Reconnaissance of Surface Water Resources in the Togiak River Basin, Southwestern Alaska, 1980 and 1982, W85-01777 1804 2A

**SQUYRES, S. W.**  
Thickness of Ice on Perennially Frozen Lakes, W85-04883 1809 2C

**SRIBOONLUE, V.**  
Seepage Characteristics of Coarse Granular Media, W85-02557 1805 8B

**SRIDHAR, K. R.**  
Seasonal Occurrence of Water-borne Fungi in Konaje Stream (Mangalore), India, W85-04387 1808 2H

**SRIKANTHAN, R.**  
Sequential Generation of Short Time-Interval Rainfall Data, W85-01235 1803 2B

Stochastic Simulation of Evaporation Data for Australia, W85-01236 1803 2D

**SRIVASTAVA, S. K.**  
Estimation of Sulphate Ions in Water and Industrial Wastes Using a Solid State Membrane Electrode, W85-04488 1809 7B

**ST, H.**  
Relining: The Feasibility of Inserting Pipe into Existing Sewers, W85-04693 1809 8A

**STAAB, K. F.**  
Wastewater Purification in the Hide Glue Industry (Abwasserreinigung bei der Hautleimindustrie), W85-05142 1810 5D

**STABEL, H.-H.**  
Impact of Sedimentation on the Phosphorus Content of the Euphotic Zone of Lake Constance, W85-04555 1809 2H

Studies on the Carbon Flux from Phyto- to Bacterioplankton Communities in Lake Constance, W85-04672 1809 2H

**STACHA, J. H.**  
Overview of Water Treatment Practices in the United States, W85-03621 1807 5F

**STACHEL, B.**  
Determination of Organohalogenic Acids in Water Samples (Bestimmung Halogenorganischer Säuren in Wasserproben), W85-01663 1804 5A

Pollution on the River Rhine with Halogenated Organic Compounds; an Investigation During a 'Fließende Welle', W85-04360 1808 5A

**STACHOWICZ, K.**  
Effects of Exploration of the 'Zarabie' Bath on the Water Quality of the River Raba (South Poland), W85-02510 1805 5C

**STACKHOUSE, C.**  
Evaluation of Electrode Methods for Determining Total Residual Chlorine in Various Water Matrices, W85-02123 1804 7B

**STADELmann, P.**  
Development of the Condition of the Baldeggersee (1900 to 1980) and the Effect of Intralake Procedures (Die Zustandsentwicklung des Baldeggersees (1900 bis 1980) und die Auswirkung von seitherne Massnahmen), W85-01865 1804 5C

Effects of Internal Measures in Baldeggersee: Forced-Circulation and Oxygenation of the Hypolimnia (Die Auswirkungen von internen Massnahmen im Baldeggersee: Zwangszirkulation und Sauerstoffbegasung des Hypolimnions), W85-04559 1809 5G

**STAHL, R. G. JR.**  
Characterization of Organic Compounds in Simulated Rainfall Runoffs from Model Coal Piles, W85-02200 1805 5B

**STAIR, D. M.**  
Comparison of Growth, Population Structure, and Food of the Creek Chub Semotilus atromaculatus in Undisturbed and Surface-Mining-Disturbed Streams in Tennessee, W85-02749 1806 5C

**STAIRS, R. A.**  
Estimation of Acidity in Rainfall by Electrical Conductivity, W85-05520 1810 5A

**STALDER, F.**  
Corrosion Behaviour of Cast Iron Pipes, W85-01994 1804 8G

**STALEY, J. T.**  
Survival and Detection of *Bacteroides* spp., Prospective Indicator Bacteria, W85-04262 1808 5A

**STALLING, D. L.**  
Rate of Kepone and Mirex in the Aquatic Environment, W85-00160 1801 5B

**STALZER, R. B.**  
Petroleum Refinery Stormwater Run-Off Study, W85-05572 1810 2A

**STAMM, A. J.**  
Rain Chemistry under the Plume from an Oil-Fired Power Plant - A Case Study, W85-01086 1802 5B

**STAMPER, J. H.**  
Fish Mortality Following Application of Phenthioate to Florida Citrus, W85-00135 1801 5C

**STANCKOWSKA, A.**  
Role of Bivalves in the Phosphorus and Nitrogen Budget in Lakes, W85-04558 1809 2H

**STANDIG, K. F.**  
Rehabilitation of the Delta Dam, W85-04030 1808 8A

**STANDORA, E. A.**  
Behavioral Thermoregulation of Largemouth Bass, Micropterus salmoides, and Bluegill, Lepo-

## AUTHOR INDEX

STEFANSSON, V.

mis macrochirus, in a Nuclear Reactor Cooling Reservoir, W85-01495	1803 5C	STASSEN, P. J. Sensitivity of Stone Fruit Rootstocks to Waterlogging, W85-04812	1809 2I	Flood-Plain Delineation in Ice Jam Prone Regions, W85-01578	1803 2E
<b>STANFIELD, R. L.</b> Regional Tensions Complicate Search for an Acid Rain Remedy, W85-01178	1803 5G	<b>STAUBLI, T.</b> Current Meter Calibration and Three-Dimensional Displacement Effects, W85-00526	1802 7B	Multisite ARMA (1,1) and Disaggregation Models for Annual Streamflow Generation, W85-06504	1812 2E
<b>STANFORD, J. A.</b> Leaf Litter Processing Rates in Four Texas Streams, W85-02247	1805 2H	<b>STAUD, R.</b> Optimization and Control of the Activated Sludge Treatment Process by Quasicontinuous Operation: Concept, Strategy and Results, W85-05286	1810 5D	Stochastic Dynamic Programming Models for Reservoir Operation Optimization, W85-03551	1807 2E
<b>STANFORTH, R. R.</b> Leaching Behavior of Lead and Cadmium at Various pH Conditions, W85-05370	1810 5E	<b>STAUDE, E.</b> Hyperfiltration of Surfactants Containing Solutions From the Plating Industry, W85-01223	1803 5D	<b>STEEL, C. P.</b> Organic Compounds in Water: Analysis Using Coupled-Column High-Performance Liquid Chromatography and Soft-Ionization Mass Spectrometry, W85-02808	1806 5A
<b>STANIC, B.</b> Influence of Drainage Trenches on Slope Stability, W85-03098	1806 8D	<b>STAUFFER, J. R. JR.</b> Effects of Salinity on Preferred and Lethal Temperatures of the Blackchin Tilapia, Sarotherodon melanotheron, W85-03143	1806 2L	<b>STEEL, J. A.</b> Sampling to Meet Water Quality Standards, W85-03882	1808 5F
<b>STANISLAUS, M. J.</b> Agroclimatic Approach to the Assessment of Tropical Droughts, W85-05080	1810 2B	<b>STAUFFER, R. E.</b> Arsenic and Antimony in Geothermal Waters of Yellowstone National Park, Wyoming, USA, W85-04370	1808 2K	<b>STEEL, J. E. C.</b> Biological Considerations in the Setting of Quality Standards for the Tidal Thames, W85-04509	1809 5G
<b>STANLEY, H. E.</b> Fractal Growth of Viscous Fingers: Quantitative Characterization of a Fluid Instability Phenomenon, W85-05854	1811 1B	Lateral Solute Concentration Gradients in Stratified Eutrophic Lakes, W85-06509	1812 2H	<b>STEELE, B. B.</b> Aquatic Birds of the White River, Uintah County, Utah, W85-06870	1812 6G
<b>STANLEY, J. G.</b> Calibrating Effects of Acidity on Atlantic Salmon for Use in Habitat Suitability Models, W85-00068	1801 5C	Nutrient Internal Cycling and the Trophic Regulation of Green Lake, Wisconsin, W85-07070	1812 2H	<b>STEELE, T. D.</b> Characterization of Stream Temperatures in Pakistan Using Harmonic Analysis, W85-00692	1802 2H
<b>STANNERS, D. A.</b> Use of Reprocessing Effluent Radionuclides in the Geochronology of Recent Sediments, W85-01098	1802 2L	Relationships Between Phosphorus Loading and Trophic State in Calcareous Lakes of Southeast Wisconsin, W85-05620	1810 5C	<b>STEENBERGEN, C. L. M.</b> Carbon Mineralization in Microaerobic and Anaerobic Strata of Lake Vechten (The Netherlands): Diffusion Flux Calculations and Sedimentation Measurements, W85-04702	1809 2H
<b>STAPLES, K. D.</b> Industrial Effluent Treatment at Sewage-Treatment Works: The Tadcaster Experience, W85-04521	1809 5D	Use of Solute Tracers Released by Weathering to Estimate Groundwater Inflow to Seepage Lakes, W85-06705	1812 2F	<b>STEENHUIS, T. S.</b> Hydraulic Loading for Land Treatment Sites Under Non-Ideal Conditions, W85-05401	1810 5D
<b>STAPLETON, P. L.</b> Comparison of the Mutagenicity of Sewage Sludges, W85-03662	1807 5E	<b>STAVROS, R. W.</b> Evaluation of Alternative Policies for Controlling Agricultural Nonpoint Source Pollution, W85-04989	1810 6B	<b>STEEVES, A. L.</b> Anaerobic Pretreatment Facility also Provides Sludge Disposal Capability and Source of Renewable Energy for Food Processor, W85-05566	1810 5D
<b>STARBUCK, J. G.</b> Performance of Plastic Canal Linings, W85-06910	1812 8C	<b>STEAD, R. G.</b> Pollution Control Policies for the Tees Estuary, W85-04525	1809 5G	<b>STEFAN, H. G.</b> How Wind can Affect a Sedimentation Basin, W85-03874	1808 2J
<b>STARK, J. R.</b> Water Resources of Sleeping Bear Dunes National Lakeshore, Michigan, W85-03917	1808 2E	<b>STEANE, M. S.</b> Anomalous Stratification Behaviour of Lake Gordon, Headwater Reservoir of the Lower Gordon River, Tasmania, W85-00779	1802 2H	Side Effects of 58 Years of Copper Sulfate Treatment of the Fairmont Lakes, Minnesota, W85-04996	1810 5G
<b>STARKEL, W. M.</b> Predicting the Effect of Macrofauna on the Sediment/Water Flux of Metals and Phosphorus, W85-04839	1809 2K	<b>STEBER, J.</b> Metabolites and Biodegradation Pathways of Fatty Alcohol Ethoxylates in Microbial Biocenoses of Sewage Treatment Plants, W85-05510	1810 5D	Stream Productivity Analysis with DORM - I; Development of Computational Model, W85-04304	1808 2H
<b>STARKEY, J. E.</b> Effect of Low Dissolved Oxygen Concentration on Effluent Turbidity, W85-01653	1804 5D	<b>STECHERT, J.</b> Occurrence of DDT and Polychlorinated Biphenyls (PCB) in Fish from Lakes in Schwerin County (Zum Vorkommen von DDT und Polychlorierten Biphenylen (PCB) in Fischen aus Seen des Bezirktes Schwerin), W85-06275	1812 5C	Stream Productivity Analysis with DORM - II; Parameter Estimation and Sensitivity, W85-04305	1808 2H
<b>STARODUBTSEV, V. M.</b> Changes in the Reclamation Conditions of the Ili Delta Head Following Streamflow Regulation, W85-04131	1808 6G	<b>STEDFAST, D. A.</b> Assessment of Steady-State Propane-Gas Tracer Method for Reaeration Coefficients - Cowaselon Creek, New York, W85-00838	1802 5G	Stream Productivity Analysis with DORM - III; Productivity of Experimental Streams, W85-04306	1808 2H
<b>STARZYK, J.</b> Cumulation of Zinc, Cadmium and Mercury on the Alga Scenedesmus obliquus, W85-06268	1812 5C	<b>STEDINGER, J. R.</b> Algorithms for Optimizing Hydropower System Operation, W85-04786	1809 4A	<b>STEFANI, S.</b> Overlapping Piles Form Cutoff Wall at Thai Dam, W85-01543	1803 8A
<b>STARZECKA, A.</b> Stream Ecosystems in Mountain Grassland (West Carpathians); 5. Bacteria, W85-02516	1805 5B			<b>STEFANSSON, U.</b> Sources of Alkalinity in Lake Miklavatn, North Iceland, W85-01586	1803 2H
				<b>STEFANSSON, V.</b> Krafla Geothermal Field, Iceland; 1. Analysis of Well Test Data, W85-03553	1807 2F

## AUTHOR INDEX

**STEFANSSON, V.**

Krafla Geothermal Field, Iceland; 2. The Natural State of the System, W85-03554 1807 2F

Krafla Geothermal Field, Iceland; 3. The Generating Capacity of the Field, W85-03555 1807 4B

Krafla Geothermal Field, Iceland; 4. History Match and Prediction of Individual Well Performance, W85-03556 1807 4B

**STEFFEN, W.**  
Limnological Study of Lake Ranco (Chile); Morphometry, Physics, Chemistry and Plankton, W85-00108 1801 2H

**STEFFLER, P. M.**  
LDA Measurements in Open Channel, W85-04399 1808 8B

**STEIGER, J. I.**  
Ground-Water Reconnaissance of the Central Weber River Area, Morgan and Summit Counties, Utah, W85-03939 1808 2F

**STEIGERWALT, A.**  
*Legionella anisa: A New Species of Legionella Isolated From Potable Waters and a Cooling Tower,* W85-05046 1810 5B

**STEIN, J. E.**  
Simultaneous Exposure of English Sole (*Parophrys vetulus*) to Sediment-Associated Xenobiotics: Part 1 - Uptake and Disposition of 14C-Polychlorinated Biphenyls and 3H-Benz(a)Pyrene, W85-04870 1809 5C

**STEIN, M.**  
Influence of NTA on the Remobilization of Metals From Lake and River Sediments (Der Einfluss von NTA auf die Metallrucklösung aus Gewässersedimenten), W85-05043 1810 5B

**STEINBACH, J.**  
Decentralized Hydropower Control, W85-01548 1803 6A

**STEINER, B.**  
Interactions of Halogenated Hydrocarbons with Soils, W85-03287 1807 5B

**STEINER, J. L.**  
Microclimate and Crop Responses to Center Pivot Sprinkler and to Surface Irrigation, W85-05922 1811 3F

**STEINERT, S. A.**  
Serum Biochemical and Cellular Responses to Experimental Cupric Ion Challenge in Mussels, W85-05888 1811 5C

**STEINHAUER, M. S.**  
Bromide-Oxidation Interactions and THM Formation: A Literature Review, W85-06490 1812 5B

**STEINHEIMER, T. R.**  
Water Analysis, W85-07112 1812 5A

**STEINHORST, R. K.**  
Estimating the Parameters of a Cube Root Normal Distribution from Reduced Sample Data, W85-04796 1809 2B

**STEINITZ-KANNAN, M.**  
Discovery of Permanent Amazon Lakes and Hydraulic Disturbance in the Upper Amazon Basin, W85-04307 1808 2H

**STEINKAMPP, W. C.**  
Origins and Distribution of Saline Ground Waters in the Floridan Aquifer in Coastal Southwest Florida, W85-01778 1804 2K

**STEKETEE, C. H.**  
Key to Effective I/I Control, W85-00739 1802 5D

**SELCZER, K.**  
Calculation of Coarse Bed-Load Movement, W85-05143 1810 2J

**STELLA, M.**  
Importance of Macrophytes in Two Lakes with Different Trophic Degree: Lake Comabbio and Lake Monate (Province of Varese, Northern Italy), W85-04564 1809 2H

**STELZER, W.**  
Some Problems in the Application of the MPN Method for the Quantitative Determination of *Salmonella* (Einige Probleme bei der Anwendung des MPN-Verfahrens zur quantitativen Salmonellenbestimmung), W85-06650 1812 5A

**STERNERSEN, J.**  
Time Trends of Organochlorine Chemical Residues in Seven Sedentary Marine Fish Species from a Norwegian Fjord during the Period 1972-1982, W85-04365 1808 5B

**STENQUIST, R. J.**  
Design Manual, Municipal Wastewater Stabilization Ponds, W85-05133 1810 5D

**STENSEL, D.**  
Biologically Enhanced Oxygen Transfer in a Fixed-Film System, W85-07042 1812 5D

**STENSTROM, T. A.**  
Reduction of Pathogenic Microorganisms in Soil Infiltration Systems, W85-05215 1810 5D

**STEPHANOUE, E.**  
Identification of Nonionic Detergents by GC/CI-MS: I. A Complementary Method or an Attractive Alternative to GC/EI-MS and Other Methods, W85-01955 1804 5A

**STEPHENSON, C. E.**  
Method for Measuring Stream Flows in Rivers, W85-03833 1808 7B

**STEPHENSON, D. B.**  
Evaluation of Closed-Form Analytical Models to Calculate Conductivity in a Fine Sand, W85-05179 1810 2G

Field Method to Determine Unsaturated Hydraulic Conductivity Using Flow Nets, W85-04791 1809 2G

**STEPHENSON, D. W.**  
Surface Water and Climatologic Data, Salt Lake County, Utah, Water Year 1981, With Selected Data for Water Years 1980 and 1982, W85-00603 1802 7C

**STEPHENSON, J. S. JR.**  
Effects of Dechlorinated Seawater on Fish Behavior, W85-04862 1809 5D

**STEPHENSON, J. P.**  
Pilot Scale Investigation of Computerized Control of the Activated Sludge Process, W85-05333 1810 5D

**STEPHENSON, M. D.**  
California State Mussel Watch, 1981-1983, Biennial Report, W85-06333 1812 5C

Relationships between Physiological Stress and Trace Toxic Substances in the Bay Mussel, *Mytilus edulis*, from San Francisco Bay, California, W85-01350 1803 5C

**STEPHENSON, R. A.**  
Comparison of Water Catchment and Storage Systems in Two Micronesian Atoll Communities: Laura and Nama, W85-02028 1804 6D

**STEPHENSON, R. R.**  
Evaluation of a Rapid Range-Finding Test for Use in Acute Lethality Studies with Fish, W85-01450 1803 5A

Persistence and Effects of Chemicals in Small Enclosures in Ponds, W85-02207 1805 5C

**STEPHENSON, W.**  
Macrobenths of the Cooling Water Discharge Canal of the Gladstone Power Station, Queensland, W85-00789 1802 5C

**STEPP, R. J.**  
Computing Water System Development Charges, W85-03613 1807 6C

**STERN, J.**  
Nonuniform Sprinkler Irrigation and Crop Yield, W85-05924 1811 3F

**STERN, R. D.**  
Use of Rainfall Models in Agricultural Planning, W85-01066 1802 2B

**STERNBERG, P.**  
Comparison of Methods Used to Estimate Evapotranspiration for Leaching Control, W85-05926 1811 7B

**STERRETT, S. B.**  
Effect of Sludge Quality and Rate, Soil pH, and Time on Heavy Metal Residues in Leafy Vegetables, W85-05382 1810 5E

**STERRITT, R. M.**  
Adsorption and Complexation Mechanisms of Heavy Metal Uptake in Activated Sludge, W85-04411 1809 5D

Aspects of the Determination of Complexation Parameters for Metal-Particulate Complexes in Activated Sludge, W85-06223 1812 5D

Comparison of Methods for the Determination of Conditional Stability Constants of Heavy Metal-Fulvic Acid Complexes, W85-02434 1805 5A

Complexation of Heavy Metals by Extracellular Polymers in the Activated Sludge Process, W85-04290 1808 5D

Evaluation of Single- and Separated-Phase Anaerobic Industrial Wastewater Treatment in Fluidized Bed Reactors, W85-02735 1806 5D

Factors Affecting the Removal of Metals During Activated Sludge Wastewater Treatment; I. The Role of Soluble Ligands, W85-02209 1805 5D

Factors Affecting the Removal of Metals During Activated Sludge Wastewater Treatment; II. The Role of Mixed Liquor Biomass, W85-02210 1805 5D

**STETLER, D. A.**  
Ionoregulatory and Toxicological Responses of Stonefly Nymphs (*Plecoptera*) to Acidic and Alkaline pH, W85-05108 1810 5C

AUTHOR INDEX

STODDARD, J. L.

<b>STETTLER, R. E.</b>			
Copiphages as Indicators of Enteroviruses, W85-02936	1806	5A	
<b>STETZENBACH, K. J.</b>			
New Method for Simultaneous Measurement of Cl(-), Br(-), NO3(-), SCN(-), and I(-) at Sub-ppm Levels in Ground Water, W85-00356	1801	5A	
<b>STEUBING, L.</b>			
Distribution of Macrophytes and Microphytes in Hard Water of the Eder Reservoir Inflents (Die Verbreitung von Makrophyten und Mikro- phyten in Hartwasser-Zuflüssen des Ederstau- sees), W85-02895	1806	2H	
<b>STEUDLE, E.</b>			
Effect of Different Growing Conditions on Water Relations Parameters of Leaf Epidermal Cells of <i>Tradescantia virginiana</i> L., W85-00208	1801	21	
<b>STEUDLER, P. A.</b>			
Determination of Total Reduced Sulfur in Natural Waters, W85-01596	1803	5A	
<b>STEVENS, A. A.</b>			
Organic Halogen Measurements: Current Uses and Future Prospects, W85-06494	1812	5A	
Reaction Products of Chlorine Dioxide, W85-01209	1803	5F	
<b>STEVENS, D. E.</b>			
Decline of Striped Bass in the Sacramento-San Joaquin Estuary, California, W85-06403	1812	5C	
<b>STEVENS, D. G.</b>			
Avoidance of Copper and Nickel by Rainbow Trout as Monitored by a Computer-Based Data Acquisition System, W85-01624	1803	5C	
<b>STEVENS, G. M.</b>			
Initial Operating Experiences of a Nutrient Re- moval Process (Modified Bardenpho) at Kelowna, British Columbia, W85-04045	1808	5D	
<b>STEVENS, M. A.</b>			
Riprap Stability Analysis, W85-06114	1811	2J	
<b>STEVENS, P. A.</b>			
Factors Influencing Bulk Precipitation Chemis- try at an Upland Site in Mid-Wales, W85-00509	1802	2K	
<b>STEVENSON, A. C.</b>			
Lake Acidification in Galloway: A Palaeoecological Test of Competing Hypotheses, W85-06013	1811	5B	
<b>STEVENSON, J. C.</b>			
Temporal Responses of the Macrophyte, <i>Pota-</i> <i>mogeton perfoliatum</i> L., and Its Associated Auto- trophic Community to Atrazine Exposure in Es- tuarian Microcosms, W85-05708	1810	5C	
<b>STEVENSON, L. H.</b>			
Transport of Dissolved Organic Carbon through a Major Creek of the North Inlet Ecosystem, W85-01766	1804	2L	
<b>STEVENSON, R. J.</b>			
Epilithic and Epipellic Diatoms in the Sandusky River, with Emphasis on Species Diversity and Water Pollution, W85-02545	1805	2E	
<b>STEVERS, P. H.</b>			
Flow Balancing System for Stormwater and Combined Sewer Overflow, W85-04772	1809	5D	
<b>STEWART, D. W.</b>			
Water Stress Conditioning of Corn ( <i>Zea mays</i> ) in the Field and the Greenhouse, W85-07140	1812	2I	
<b>STEWART, J. A.</b>			
Low-Flow Characteristics of Indiana Streams, W85-00600	1802	2E	
<b>STEWART, J. B.</b>			
Measurement and Prediction of Evaporation from Forested and Agricultural Catchments, W85-06666	1812	2D	
<b>STEWART, J. W.</b>			
Hydrogeology and Water Quality of Six Landfill Sites in Hillsborough County, Florida, W85-01946	1804	5B	
<b>STEWART, K. M.</b>			
Physical Model Study of Lake Constance, W85-04072	1808	2H	
<b>STEWART, L. E.</b>			
Disposal of Secondary Treated Municipal Sewage by Subsurface Irrigation, W85-00060	1801	5E	
<b>STEWART, M.</b>			
Application of Resistivity Surveys to Regional Hydrogeologic Reconnaissance, W85-00357	1801	7B	
<b>STEWART, M. T.</b>			
Evaluation of Electromagnetic Methods for Rapid Mapping of Salt-Water Interfaces in Coastal Aquifers, W85-00330	1801	7B	
<b>STEWART, M. W.</b>			
Leachate Disposal Alternatives in a Sole Source Aquifer Environment, W85-05373	1810	5E	
<b>STEYGER, N.</b>			
Joint Effects of a Mixture of 14 Chemicals on Mortality and Inhibition of Reproduction of <i>Daphnia magna</i> , W85-03688	1807	5C	
<b>STHAPIT, P. R.</b>			
Suppression of Interferences in the Determina- tion of Lead in Natural and Drinking Waters by Graphite-Furnace Atomic Absorption Spec- trometry, W85-05525	1810	5A	
<b>STICH, H. F.</b>			
Increased Response of the Rainbow Trout Gonad Cell Unscheduled DNA Repair Assay, W85-05010	1810	5A	
<b>STICHLER, W.</b>			
Application of Tracer Techniques for Determin- ing the Water Balance in Small Catchment Basins; A Research Concept for the Experi- mental Basin in the Upper Harz Mountains (Anwen- nung von Tracermethoden zur Erfassung des Wasserumsatzes in kleinen Einzugsgebieten; Ein Forschungskonzept für die Oberharzer Untersu- chungsgebiete), W85-04804	1809	2A	
<b>STICKLER, D. J.</b>			
Assessment of <i>Bacteroides fragilis</i> Group Organ- isms as Indicators of Human Faecal Pollution, W85-05808	1810	5B	
Note on a Membrane Filtration Method for the Concentration and Enumeration of Bacterio- phages from Water, W85-06180	1812	5A	
<b>STIERMAN, D. J.</b>			
Electrical Methods of Detecting Contaminated Groundwater at the Stringfellow Waste Disposal Site, Riverside County, California, W85-02858	1806	5B	
<b>STIFTEL, B.</b>			
SAGE: A New Participant-Value Method for Environmental Assessment, W85-04999	1810	6A	
<b>STILLER, M.</b>			
Radium in the Dead Sea: A Possible Tracer for the Duration of Meromixis, W85-01330	1803	2H	
Short Meromictic Episode in the Dead Sea: 1979-1982, W85-02612	1805	2H	
<b>STILTNER, G. J.</b>			
Digital Model for Streamflow Routing by Con- volution Methods, W85-03942	1808	2E	
<b>STITT, S. C.</b>			
Automated Plugging Factor Monitor-Specifica- tions, W85-04210	1808	3A	
<b>STOBER, J.</b>			
Asbestos in Water Supplies of the United States, W85-02703	1806	5F	
Influence of the Time of Acidification after Sample Collection on the Preservation of Drink- ing Water for Lead Determination, W85-07088	1812	5A	
Use of Biological Assay Systems to Assess the Relative Carcinogenic Hazards of Disinfection By-Products, W85-01218	1803	5F	
<b>STOBER, J. A.</b>			
Epidemiology Study of the Use of Asbestos- Cement Pipe for the Distribution of Drinking Water in Escambia County, Florida, W85-02709	1806	5C	
<b>STOCKER, R. V.</b>			
Calibration of Neutron Moisture Meters on Stony Soils (Note), W85-06435	1812	7B	
<b>STOCKER, W.</b>			
Economizing the Diameter of Tunnels, W85-04413	1809	8A	
<b>STOCKNER, J. G.</b>			
Integration of Forest and Lake Fertilization: Transport and Transformations of Fertilizer Ele- ments, W85-00147	1801	5G	
Periphyton Biomass and Species Composition in 21 British Columbia Lakes: Seasonal Abundance and Response to Whole-Lake Nutrient Addi- tions, W85-00954	1802	5G	
Recent Trophic Changes in Kootenay Lake, British Columbia, as Recorded by Fossil Dia- toms, W85-00249	1801	2H	
Responses of Sockeye Salmon ( <i>Oncorhynchus</i> <i>nerka</i> ) to Fertilization of British Columbia Coastal Lakes, W85-04847	1809	8I	
<b>STOCKTON, C. W.</b>			
Secular Variations in Streamflow in the Western United States, W85-03845	1808	2E	
Tree-Ring Data: Valuable Tool for Reconstructing Annual and Seasonal Streamflow and Deter- mining Long-Term Trends, W85-04328	1808	2E	
<b>STODDARD, J. L.</b>			
Major Ion Chemistry and Sensitivity to Acid Precipitation of Sierra Nevada Lakes, W85-04789	1809	5C	

## AUTHOR INDEX

### STOECKER, J. G.

**STOECKER, J. G.**  
Evaluating Sedimentation and Various Filter Media for Removal of Giardia Cysts, W85-04832 1809 5F

**STOEPPLER, M.**  
Bioaccumulation of Heavy Metals by Bivalves from Lim Fjord (North Adriatic Sea), W85-02471 1805 5B

**STOERMER, E. F.**  
Hypothesis Relating Trophic Status and Subsurface Chlorophyll Maxima of Lakes, W85-00763 1802 2H

Influence of the St. Marys River Plume on Northern Lake Huron Phytoplankton Assemblages, W85-01756 1804 2H

Research on Great Lakes Algal Communities: Problems from the Past, Lessons for the Future, W85-00921 1802 2H

Variations in *Melosira islandica* Valve Morphology in Lake Ontario Sediments Related to Eutrophication and Silica Depletion, W85-07072 1812 2H

**STOEWSAND, G. S.**  
Toxicologic Studies Associated with the Agricultural Use of Municipal Sewage Sludge and Health Effects among Sewage Treatment Plant Workers, W85-04776 1809 5E

**STOFFERS, P.**  
Reconnaissance Survey of the Mineralogy and Geochemistry of some New Zealand Lake and Nearshore Sediments, W85-00809 1802 2H

**STOKER, J. M.**  
North Minnies Treatment Works' Refurbishment and Automation, W85-06573 1812 5F

**STOKES, P. M.**  
pH-Related Changes in Attached Algal Communities of Softwater Lakes, W85-04201 1808 5C

**STOKES, W. R. III**  
Water Resources Data, Georgia, Water Year 1982, W85-01938 1804 2E

**STOLLENWERK, K. G.**  
Adsorption and Desorption of Hexavalent Chromium in an Alluvial Aquifer Near Telluride, Colorado, W85-06626 1812 5B

**STOLZY, L. H.**  
Comparison of Methods Used to Estimate Evapotranspiration for Leaching Control, W85-05926 1811 7B

**STONE, R. B.**  
Drainage Basins in Duval County, Florida, W85-02046 1804 7C

**STONE, W. J.**  
Recharge in Karst and Dune Elements of a Semi-Arid Landscape as Indicated by Natural Isotopes and Chloride, W85-05530 1810 2F

Role of Geological and Geophysical Data in Modeling a Southwestern Alluvial Basin, W85-03151 1806 2F

**STONER, J. H.**  
Effects of Acidification on the Ecology of Streams in the Upper Tywi Catchment in West Wales, W85-02116 1804 5C

Effects of Forestry on Water Quality and Fish in Welsh Rivers and Lakes, W85-06574 1812 5C

**STONER, M. A.**  
Water Hammer: Causes and Effects, W85-03626 1807 8B

**STONER, R. F.**  
Disposal of Drainage Water from Irrigated Alluvial Plains, W85-01392 1803 5G

**STONEROOK, H.**  
Case History of Industrial Pretreatment in Columbus, Ohio, W85-03331 1807 5D

**STONEROOK, H. R.**  
Case History of a City's Successful Land Application Program of Liquid Sludge on Sod, W85-05388 1810 5E

**STONES, T.**  
Decreasing Rate of Biochemical Oxidation of Sewage, W85-04468 1809 5D

**STOOPS, C. E. JR.**  
Oil Spill Focuses Attention on the Problems of a Man-Made Recreational Lake, W85-01650 1804 5B

**STOPKA, K.**  
Why Ozone is a Viable Alternative to Chemicals for the Treatment of Cooling Tower and Heat Exchanger Water, W85-05992 1811 5F

**STORNI, M. S. O.**  
Tidal Variations of Some Physico-Chemical Parameters in Blanca Bay, Argentina, W85-03498 1807 2L

**STOROZHUK, N. G.**  
Effect of Mercury on the Respiration Rate of Larval Pink Salmon, *Oncorhynchus gorbuscha*, W85-02853 1806 5C

Toxic Effect of Mercury on Salmon Larval, *Oncorhynchus keta* and *O. kisutch*, W85-02848 1806 5C

**STORR, J. F.**  
Biology, Ecology and Chemistry of a Floc-Like Sediment in Lake Erie, W85-02642 1805 2H

**STOTTMEISTER, E.**  
Problems in Water Contamination and its Analytical Understanding (Probleme der Wasserkontamination und ihrer analytischen Erfassung), W85-06267 1812 5A

**STOTZKY, G.**  
Heavy Metal Toxicity to Microbe-Mediated Ecologic Processes: A Review and Potential Application to Regulatory Policies, W85-04435 1809 5C

Nickel Toxicity to Microbes: Effect of pH and Implications for Acid Rain, W85-00286 1801 5C

**STOUT, G. E.**  
Water Reuse Through Groundwater Recharge in Northeastern Illinois, W85-06941 1812 5D

**STOUT, J. E.**  
Ecology of *Legionella pneumophila* within Water Distribution Systems, W85-04264 1808 5F

**STOVER, E. L.**  
Anaerobic Treatment of Fuel Alcohol Wastewater by Suspended Growth Activated Sludge, W85-05406 1810 5D

Design, Start-Up, and Operation of an Ozone Disinfection Unit, W85-03866 1808 5D

Predicting Treatability of Multiple Organic Priority Pollutant Wastewaters from Single-Pollutant Treatability Studies, W85-05280 1810 5D

Variability Analysis During Biological Treatability of Complex Industrial Wastewater for Design, W85-05292 1810 5D

**STOYE, G.**  
Rationalization of Central Planning in Water Management Through the Introduction of EDP (Rationalisierung der zentralen Planung in der Wasserwirtschaft durch Einsatz der EDV), W85-01879 1804 7C

**STRACK, O. D. L.**  
Three-Dimensional Streamlines in Dupuit-Forchheimer Models, W85-02148 1804 2F

**STRAHAN, J.**  
Establishment and Survival of Woody Riparian Species on Gravel Bars of an Intermittent Stream, W85-03016 1806 2A

**STRAIN, B. R.**  
Effects of CO<sub>2</sub> Enrichment and Water Stress on Growth of *Liquidambar styraciflua* and *Pinus taeda* Seedlings, W85-03319 1807 2I

**STRAIN, W. H.**  
Nature and Source of Arsenic in Northeastern Ohio Ground Water, W85-00325 1801 5B

**STRAND, F. R.**  
Sludge Management Survey, (Fox River Valley, Wisc.), W85-00834 1802 5G

**STRAND, L.**  
Acid Precipitation and Forest Growth in Norway, W85-03489 1807 5C

**STRAND, R. H.**  
Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530, Report 7: Management of Ecological Data in Large River Ecosystems, W85-06899 1812 6G

**STRAND, S. E.**  
Concurrent Denitrification and Oxygen Uptake in Microbial Films, W85-06226 1812 2K

Mathematical Analysis of Oxygen and Nitrate Consumption in Deep Microbial Films, W85-06227 1812 2H

Rapid BOD Measurement for Municipal Wastewater Samples using a Biofilm Electrode, W85-01739 1804 5D

**STRANDBERG, G. W.**  
Biooxidation of Coal Gasification Wastewaters, W85-04038 1808 5D

**STRANSKY, Z.**  
Isochlophoresis of Cationic Herbicides in Waters and Soils, W85-05911 1811 5A

**STRASKRABA, M.**  
Spectral Analysis of the Automatically Recorded Data from Slapy Reservoir, Czechoslovakia, W85-06881 1812 2H

**STRASSER, P.**  
Phosphate Uptake by Blue Green Algae in vitro and in a Lake During an Algal Bloom: Useful Application of a Force-Flow Relationship, W85-01015 1802 2H

## AUTHOR INDEX

SUBHADRA, KM.

<b>STRAUBE, B.</b>				
Forecasting of Water Level and Discharge of the Elbe with the Aid of Fuzzy Modelling (Vorhersage von Wasserstand und Durchfluss fur die Elbe mit Hilfe einer unscharfen Modellierung), W85-01973	1804	2E		
<b>STRAUSBERG, S. I.</b>				
Hydrogeologic Control of Localized Iron-Enriched Ground Water, Lima, Ohio, W85-00342	1801	4B		
<b>STRAUSMAN, R. YA.</b>				
Calculation of the Particle-Size Distribution of Blasted Rock, W85-00471	1801	8E		
<b>STRAUSS, S. D.</b>				
Cooling-Water Treatment for Control of Scaling, Fouling, Corrosion, W85-01537	1803	5F		
Disposing of Powerplant Flyash Can be Effect-ed in an Environmentally Safe Manner, W85-00211	1801	5G		
<b>STRAWN, K.</b>				
Predicted Survival of the Bay Anchovy (Anchoa mitchilli) in the Heated Effluent of a Power Plant on Galveston Bay, Texas, W85-03022	1806	5C		
Seasonal Change in Thermal Tolerance of Common Estuarine Crustaceans, W85-00140	1801	5C		
<b>STREET, R. L.</b>				
Circulation Structure in a Stratified Cavity Flow, W85-05787	1810	2H		
<b>STREETS, D. G.</b>				
Acid Rain Control and United States Energy Policy, W85-06555	1812	5G		
<b>STREICHER, R. P.</b>				
Identification and Measurement of Components in Gasoline, Kerosene, and No. 2 Fuel Oil that Partition into the Aqueous Phase after Mixing, W85-02199	1805	5B		
<b>STREIT, U.</b>				
Adjusting Algorithm for Estimated Sub-regional Means of Areal Precipitation Using a Regional Mean of Known Size (Angleich-Verfahren fur geschätzte Teilgebiet-Niederschläge bei bekanntem Gesamtgebiet-Niederschlag), W85-00970	1802	7A		
<b>STRELCHER, R. P.</b>				
Gas Chromatography/Mass Spectroscopy Analysis of Mutagenic Extracts of Aqueous Chlorinated Humic Acid. A Comparison of the Byproducts to Drinking Water Contaminants, W85-02345	1805	5B		
<b>STRELKOFF, T.</b>				
Management Contours for Border Irrigation, W85-03821	1808	3F		
Modeling Effect of Depth on Furrow Infiltration, W85-03819	1808	3F		
Normalized Graphs of Border-Irrigation Per-formance, W85-03818	1808	3F		
<b>STREMMING, H.</b>				
Continuous Detection of Pollutants on Surfaces of Running Water (Kontinuierlicher Nachweis von Verunreinigungen auf Oberflächen von fließenden Gewässern), W85-05140	1810	5A		
<b>STRENGE, D. L.</b>				
Aquatic Pathways Model to Predict the Fate of Phenolic Compounds, W85-04222	1808	5B		
<b>STRETTON, C.</b>				
Water Supply and Forestry - A Conflict of Interests: Cray Reservoir, A Case Study, W85-03020	1806	6G		
<b>STRICKER, V. A.</b>				
Base Flow of Streams in the Outcrop Area of Southeastern Sand Aquifer: South Carolina, Georgia, Alabama, and Mississippi, W85-03940	1808	2E		
<b>STRIER, M. P.</b>				
Removal Pathways and Fate of Organic Priority Pollutants in Treatment Systems: Chemical Considerations, W85-05294	1810	5D		
<b>STRITTMATTER, T. E.</b>				
Industrial Wastewater Treatment with Water Reuse at a Coal-Fired Generating Station, W85-02579	1805	5D		
<b>STROBL, T.</b>				
Sealing of the Heavily Jointed Sandstone Strata at Brombach-Dam (Abdichtung des stark kluftigen Sandsteingebirges an der Brombachtal-sperre), W85-03260	1807	8F		
<b>STROGOVON, A. A.</b>				
Relation Between Certain Components of Planktonic Community and the Content of Phosphates and Oxygen in Water (Vzaimosvyazi Mezhdv Nekotoryimi Komponentami Planktonnogo Soobshchestva i Soderzhaniem Fosfato-v Kisloroba v Vode), W85-06459	1812	2H		
<b>STROHM, W. E.</b>				
Analysis of Field Compaction Data, DeGray Dam, Caddo River, Arkansas, W85-06913	1812	8D		
<b>STROM, A. G.</b>				
Aspects of Water and Sewage Treatment in Australia, W85-05514	1810	5F		
<b>STROM, A. L.</b>				
Experience in the Use of Satellite Photographs for Engineering-Geological Characterization of Construction Sites of Hydraulic Structures, W85-06589	1812	7B		
<b>STROM, R. N.</b>				
Phosphorus Distribution in Sediments of the Delaware River Estuary, W85-01843	1804	2L		
<b>STROO, H. F.</b>				
Effect of Simulated Acid Rain on Mycorrhizal Infection of <i>Pinus strobus</i> L., W85-06890	1812	5C		
<b>STROOSNIJDER, L.</b>				
Test and Analysis of a Model of Water Use by Soghum, W85-01278	1803	2I		
<b>STRUB, P. T.</b>				
Climatic Forcing: Effects of El Nino on a Small, Temperate Lake, W85-03972	1808	2H		
<b>STRUB, T.</b>				
Temperature and Transport Patterns in Lake Tahoe: Satellite Imagery, Field Data and a Dynamic Model, W85-02609	1805	2H		
<b>STRUCHTEMAYER, R. A.</b>				
Use of Peat for On-Site Wastewater Treatment: I. Laboratory Evaluation, W85-03853	1808	5D		
Use of Peat for On-Site Wastewater Treatment: II. Field Studies, W85-03854	1808	5D		
<b>STRUEMPLER, A. W.</b>				
Uranium Geochemistry in Groundwater from Tertiary Sediments, W85-04371	1808	2K		
<b>STRUIKSMA, N.</b>				
Bed Deformation in Curved Alluvial Channels, W85-07033	1812	2J		
<b>STRUZZIERY, J. J.</b>				
Use of Aquaculture for the Treatment of Landfill Leachate in Cold Climates, W85-05374	1810	5E		
<b>STUANES, A. O.</b>				
Possible Indirect Long-Term Effects of Acid Precipitation on Forest Growth, W85-03490	1807	5C		
<b>STUART, A.</b>				
Controls on Contaminant Migration at the Villa Farm Lagoons, W85-03770	1808	5D		
<b>STUART, B. L.</b>				
Modification of Cotton Water Relations and Growth with Mepiquat Chloride, W85-03357	1807	3F		
<b>STUBER, J. J.</b>				
Biochemical Alterations Induced in Fish by an Acute Kerosine-Spillage, W85-06394	1812	5C		
<b>STUCKEY, D. C.</b>				
Effect of Thermal Pretreatment on the Anaerobic Biodegradability and Toxicity of Waste Activated Sludge, W85-02905	1806	5E		
<b>STUDHOLME, A. L.</b>				
Sublethal Effects of Oiled Sediment on the Sand Worm, <i>Nereis (Neanthes) virens</i> : Induced Changes in Burrowing and Emergence, W85-04871	1809	5C		
<b>STUMM, W.</b>				
Voltammetric Methods for Distinguishing between Dissolved and Particulate Metal Ion Concentrations in the Presence of Hydrous Oxides. A Case Study on Lead (II), W85-04800	1809	5A		
<b>STURM, T. W.</b>				
Effective Use of Cooling Lakes and Cooling Towers in Hybrid Cooling Systems, W85-06314	1812	8B		
<b>STURMAN, A. P.</b>				
Precipitation Intensity and Variability at Chilton Valley, Near Cass, Southern Alps, W85-06433	1812	2B		
<b>STUTTGART, M. R.</b>				
Wastewater Purification in the Hide Glue Industry (Abwasserreinigung bei der Hautleimindustrie), W85-05142	1810	5D		
<b>SUBBA RAO, K.</b>				
Comparative Study of the Climatological Estimation of Potential Evapotranspiration, W85-05095	1810	2D		
<b>SUBBA-RAO, R. V.</b>				
Effect of Substrate Concentration and Organic and Inorganic Compounds on the Occurrence and Rate of Mineralization and Cometabolism, W85-02132	1804	5B		
<b>SUBBOTIN, A. I.</b>				
Landscape Direction in Hydrology, W85-04142	1808	2A		
<b>SUBHADRA, KM.</b>				
In Vivo Effects of Cadmium on Some Enzyme Activities in Tissues of the Freshwater Catfish, <i>Heteropneustes fossilis</i> , W85-04434	1809	5C		

## AUTHOR INDEX

**SUBKLEW, H.-J.**

**SUBKLEW, H.-J.**  
Hydrobiology of Strelasund (Zur Hydrobiologie  
des Strelasund),  
W85-05616 1810 2L

**SUBRAHMANYAM, P. V. R.**  
Biological Treatability of m-Aminophenol Plant  
Wastewater Containing Structural Isomers of  
Benzene with Different Substituents,  
W85-06220 1812 5D

Wastewater Treatment of a Phthalate Plasticizer,  
Ethanalamine and Morpholine Manufacturing  
Plant: A Case Study,  
W85-05226 1810 5D

**SUBRAMANIAM, A. R.**  
Agricultural Droughts at Peddapuram, East Godavari District, Andhra Pradesh,  
W85-02126 1804 2I

Water Balance and Crops in Karnataka,  
W85-02127 1804 2I

**SUBRAMANIAN, K. S.**  
Arsenic in Nova Scotian Groundwater,  
W85-03032 1806 5A

**SUBRAMANYA, K.**  
Trajectory of a Turbulent Cross Jet,  
W85-07030 1812 8B

**SUCH, W.**  
New Developments for Emergency Water Supply under the Law on Safeguarding Water Supply (Neue Entwicklungen für die Trinkwasser-Notversorgung nach dem Wassersicherstellungsgezetz),  
W85-03270 1807 5F

**SUCKLING, D. M.**  
Organic Wastewater Effects on Benthic Invertebrates in the Manawatu River,  
W85-01632 1804 5C

**SUDICKY, E. A.**  
Contaminant Transport in Fractured Porous Media: Analytical Solution for a Two-Member Decay Chain in a Single Fracture,  
W85-02170 1804 5B

**SUDO, R.**  
Growth Inhibition of Planktonic Algae Due to Surfactants Used in Washing Agents,  
W85-02427 1805 5C

**SUFFET, I. H.**  
Applying Analytical Techniques to Solve Groundwater Contamination Problems,  
W85-05478 1810 5G

Interactions between Dissolved Humic and Fulvic Acids and Pollutants in Aquatic Environments,  
W85-06768 1812 5B

**SUGAHARA, K.**  
Overwintering of *Microcystis aeruginosa* Kutz. in a Shallow Lake,  
W85-03245 1807 2H

**SUGAM, R.**  
Dechlorination and Trihalomethane Yields,  
W85-06527 1812 5F

**SUGATT, R. H.**  
Toxicity of Organic Mixtures Saturated in Water to *Daphnia magna*. Effect of Compositional Changes,  
W85-01953 1804 5C

**SUGAWARA, K.**  
New Chemical Approach to the Study of Waters of Mt. Fuji Environs,  
W85-00760 1802 2A

**SUGAYA, Y.**  
Effects of Insecticides on the Benthic Community in a Model Stream,  
W85-06815 1812 5C

**SUGIMAE, A.**  
Trace Determination of Aldehydes in Water by High-Performance Liquid Chromatography,  
W85-04622 1809 5A

**SUGIURA, K.**  
Fate of 2,4,6-Trichlorophenol, Pentachlorophenol, p-Chlorobiphenyl, and Hexachlorobenzene in an Outdoor Experimental Pond: Comparison between Observations and Predictions Based on Laboratory Data,  
W85-03227 1807 5B

**SUGUIJO, K.**  
Records of Flooding Periods in a River Mouth. Example of the Rio Paraiba do Sul (Brazil). Paleoclimatic Implications (Enregistrement des Periodes de Fortes et Faibles Energies à l'embouchure d'un fleuve. Le cas du Rio Paraiba do Sul (Brésil). Implications Climatiques),  
W85-03810 1808 2E

**SUHR, J. L.**  
Effect of Soil Air Entrapment on Erosion,  
W85-03369 1807 4D

**SUI, K.-L.**  
Uncertainty Analysis of a Delineated Floodplain,  
W85-04041 1808 2E

**SUIDAN, M. T.**  
Anaerobic Activated Carbon Filter for the Degradation of Polycyclic N-Aromatic Compounds,  
W85-04288 1808 5D

Mixing Effects in UV Disinfection,  
W85-01659 1804 5D

Ultraviolet Disinfection for Municipal Wastewater,  
W85-06430 1812 5D

Unified Analysis of Thickening,  
W85-04964 1809 5E

**SUITIS, G. H.**  
Versatile Directional Reflectance Model for Natural Water Bodies, Submerged Objects, and Moist Beach Sands,  
W85-03303 1807 7B

**SUKENIK, A.**  
Coprecipitation of Microalgal Biomass with Calcium and Phosphate Ions,  
W85-04498 1809 5F

**SULE, B. F.**  
Stochastic Dynamic Programming Models for Reservoir Operation Optimization,  
W85-03551 1807 2E

**SULLAVAN, J. N.**  
Water Resources Data, Kentucky, Water Year 1982,  
W85-01923 1804 2E

**SULLIVAN, B. K.**  
Effects of Copper and Cadmium on Growth, Swimming and Predator Avoidance in *Eurytemora affinis* (Copepoda),  
W85-01900 1804 5C

**SULLIVAN, C. Y.**  
Water Conservation through Limited Irrigation of Corn and Grain Sorghum in the Great Plains,  
W85-01952 1804 3F

**SULLIVAN, K. E.**  
Results of Seepage Meter and Mini-Piezometer Study, Lake Mead, Nevada,  
W85-02688 1805 2H

**SULLIVAN, P. J.**  
Contaminant Dispersion in Some Time-Dependent Laminar Flows,  
W85-01518 1803 5B

**SULLIVAN, R.**  
Comparison of Dome and Static Aerators Treating Pharmaceutical Waste,  
W85-05413 1810 5D

Dual Nonsteady-State Evaluation of Static Aerators Treating Pharmaceutical Waste,  
W85-05252 1810 5D

Roadside Erosion Causes and Factors: Minnesota Survey Analysis,  
W85-06070 1811 2J

**SULLIVAN, T. J.**  
Persistence and Fate of Polynuclear Aromatic Hydrocarbons Deposited on Slash Burn Sites in the Cascade Mountains and Coast Range of Oregon,  
W85-05109 1810 5B

**SULLIVAN, V. I.**  
Effects of Soil Waterlogging on the Energy Status and Distribution of *Salix nigra* and *S. exigua* (Salicaceae) in the Atchafalaya River Basin of Louisiana,  
W85-04943 1809 2I

**SUMER, B. M.**  
Formation of Ripples on an Erodible Bed,  
W85-03034 1806 2J

Lift Forces on Moving Particles Near Boundaries,  
W85-02455 1805 2J

**SUMITA, M.**  
Water Quality Assessment of Seven Rivers in Noto Peninsula Using Epilithic Diatom Communities on River Bed as Biological Indicators (in Japanese),  
W85-02255 1805 5A

**SUMITANI, T.**  
High-BOD Loading Treatment Using Large-Scale Deep Aeration Tanks,  
W85-02972 1806 5D

**SUMMERS, W. K.**  
Relationship of Grain-Size Distribution and Hydraulic Conductivity - An Alternate Approach,  
W85-01534 1803 2F

**SUMNER, D. M.**  
Water-Level Maps of the Alluvial Aquifer in Northwestern Mississippi, April 1983,  
W85-01944 1804 7C

**SUN, C.-H.**  
Geological Factors Influencing Well Productivity on the Georgia Piedmont,  
W85-06319 1812 2F

**SUN, N.-Z.**  
Extended Identifiability in Aquifer Parameter Identification and Optimal Pumping Test Design,  
W85-03989 1808 2F

**SUNADA, D. K.**  
Nonsteady Three-Phase Immiscible Fluid Distribution in Porous Media,  
W85-03995 1808 5B

**SUNDA, W. G.**  
Relative Contributions of Food and Water in the Accumulation of Zinc by Two Species of Marine Fish,  
W85-01366 1803 5B

**SUNDARAM, K. M. S.**  
Behavior and Degradation of Chloryrifos-methyl in Two Aquatic Models,  
W85-00162 1801 5B

Fate of Chemical Insecticides in Aquatic Environments, Forest Spraying in Canada,  
W85-06770 1812 5B

**SUNDARESAN, B. B.**  
Biological Treatability of m-Aminophenol Plant Wastewater Containing Structural Isomers of Benzene with Different Substituents,  
W85-06220 1812 5D

## AUTHOR INDEX

**SWARTZMAN, G.**

**Status of Research and Development in Water Supply Systems in India, W85-01982** 1804 3D

**Wastewater Treatment of a Phthalate Plasticizer, Ethanolamine and Morpholine Manufacturing Plant: A Case Study, W85-05226** 1810 5D

**SUNDBACK, K.**  
Response of Planktonic and Microbenthic Algal Assemblages to Nutrient Enrichment in Shallow Coastal Waters, Southwest Sweden, W85-06210 1812 2L

**SUNG, H.-M.**  
Estimating Nonpoint Pollution from Small Urban Watersheds, W85-07055 1812 5B

**SUNG, W.**  
Aluminum in Drinking Waters, W85-05914 1811 5F

Some Considerations on Iron Removal, W85-03802 1808 5F

**SUPALLA, R. J.**  
Water Conservation through Limited Irrigation of Corn and Grain Sorghum in the Great Plains, W85-01952 1804 3F

**SURIN, A.**  
Optimal Prediction of Saturation and Wetting Fronts during Trickle Irrigation, W85-00751 1802 2G

**SURPRENANT, D. C.**  
Influence of Mineral Salts on Fecundity of the Water Flea (*Daphnia Magna*) and the Implications on Toxicity Testing of Industrial Wastewater, W85-01005 1802 5C

**SUSA, T. A.**  
Reference Plant for High Temperature Electrodialysis Desalting of Seawater, W85-00608 1802 3A

**SUSAN, J. A.**  
Landfill Design Protects Sole-Source Aquifer, W85-00624 1802 5E

**SUSSMANN, W.**  
Pollution of Two Streams in a Rural Region - A Comparison by Investigations of Several Years (Vergleich der Belastung Zweier Bäche im Landlichen Raum Anhand Mehrjähriger Untersuchungen), W85-07025 1812 5B

**SUTADIPRADJA, E.**  
Watershed Rehabilitation Program Related to the Management of River and Reservoir Sedimentation in Indonesia, W85-04438 1809 4D

**SUTHERLAND, A. J.**  
Transport of Non-Uniform Sediments (Transport de Sédiments Non Uniformes), W85-01229 1803 2J

**SUTHERLAND, J. L.**  
Determination of Wintertime Cloud Seeding Potential in the Mogollon Rim Area of Arizona, W85-04218 1808 2B

**SUTHERLAND, J. W.**  
Lake Acidification and the Biology of Adirondack Lakes: I. Rotifer Communities, W85-02646 1805 5C

**SUTTKUS, R. D.**  
Reclamation of the Pearl River, A Perspective of Unpolluted Versus Polluted Waters, W85-05725 1810 5G

**SUTTON, C. E.**  
Oligohaline Benthic Invertebrate Communities at Two Chesapeake Bay Power Plants, W85-02994 1806 5C

Selective Effects of Phytoplankton Entrainment at the Surry Power Plant, James River, Virginia, W85-00987 1802 5C

**SUTTON, J. A.**  
Dissolved and Suspended Mercury Species in the Wabigoon River (Ontario, Canada): Seasonal and Regional Variations, W85-02091 1804 5B

**SUTTON, P. A.**  
Migration and Attenuation of Selected Organics in a Sandy Aquifer - A Natural Gradient Experiment, W85-04635 1809 5B

**SUTTON, P. M.**  
Determination of Alkalinity Requirements for the Anaerobic Treatment Process, W85-05548 1810 5D

Dorr-Oliver's Fixed-Film, Suspended-Growth Anaerobic Systems for Industrial Wastewater Treatment and Energy Recovery, W85-05283 1810 5D

Treatment of Coke Plant Wastewater in the Coupled Predenitrification-Nitrification Fluidized Bed Process, W85-05272 1810 5D

**SUZUKI, J.**  
Characteristics of Heavy Metal Distribution in Bottom Mud of Urban Rivers (in Japanese), W85-06000 1811 5B

**SUZUKI, K.**  
Chemical Changes of Snow Cover by Melting, W85-00531 1802 2K

**SUZUKI, S.**  
Characteristics of Heavy Metal Distribution in Bottom Mud of Urban Rivers (in Japanese), W85-06000 1811 5B

Characteristics of Heavy Metals in the Bottom Mud of Mining and Urban Rivers (in Japanese), W85-00533 1802 5B

Distribution of Heavy Metals in Bottom Mud of Rivers IX. -Distribution of Total and Acid-Soluble Cu-, W85-00929 1802 5B

Statistical View of Heavy Metal Pollution Index of River Sediment, W85-00132 1801 5A

**SUZUKI, T.**  
Littoral Survey of the Chironomidae in Reservoirs of Nagoya City and Suburbs, W85-00539 1802 5C

**SUZUKI, Y.**  
Stormflow Generation in a Headwater Basin in the Tama Hills (in Japanese), W85-00190 1801 2E

**SUZUKU, J.**  
Characteristics of Heavy Metals in the Bottom Mud of Mining and Urban Rivers (in Japanese), W85-00533 1802 5B

**SVANBERG, O.**  
Availability of Cadmium to Perfused Rainbow Trout Gills in Different Water Qualities, W85-06729 1812 5C

Influence of Surfactants on Gill Physiology and Cadmium Uptake in Perfused Rainbow Trout Gills, W85-06741 1812 5C

**SVARDAL, K.**  
Anaerobic Treatment of Fibre Board Mill Wastewater, W85-07023 1812 5D

Anaerobic Treatment of Sulfite Pulp Mill Effluents, W85-07011 1812 5D

Anaerobic Treatment of Viscose Wastewater, W85-07016 1812 5D

**SVENNNSSON, B. H.**  
In Situ Methane Production from Acid Peat in Plant Communities with Different Moisture Regimens in a Subarctic Mire, W85-05720 1810 2K

**SVESHNIKOV, G. B.**  
Changes in Chemical Composition of Precipitation as it Falls (Ob Izmenenii Khimicheskogo Sostava Atmosernykh Osadkov V Protsesse Ich Vypadeniya), W85-06808 1812 5B

**SVETLICHNAYA, I. A.**  
Calculation of Infiltration Losses of Storm Runoff, W85-05153 1810 2E

**SVIREZHEV, Y. M.**  
Minimal Model of Eutrophication in Freshwater Ecosystems, W85-02339 1805 2H

**SVOMA, J.**  
Protection of Groundwater from Oil Pollution in the Vicinity of Airports, W85-02859 1806 5G

**SWAIN, R.**  
Ecological Effects of Mine Effluents on the South Esk River, North-eastern Tasmania; III. Benthic Macroinvertebrates, W85-00782 1802 3C

Influence of a Metal-Contaminated Tributary on the Invertebrate Drift Fauna of the King River (Tasmania, Australia), W85-06790 1812 5C

**SWAIN, W. R.**  
Application of Mathematical Models to Large Aquatic Ecosystems, W85-02883 1806 2A

Great Lakes Research: Past, Present and Future, W85-00916 1802 4A

Overview of the US-USSR Joint Agreement on Environmental Protection Related to Prevention of Water Pollution, W85-02881 1806 6E

**SWAN, D. S.**  
Radiocaesium and 210Pb in Clyde Sea Loch Sediments, W85-00659 1802 5B

**SWANGO, L. J.**  
Bactericidal Properties of a New Water Disinfectant, W85-05511 1810 5F

**SWANSON, J. C.**  
Oil Spill Fishery Impact Assessment Model: Sensitivity to Spill Location and Timing, W85-05688 1810 5C

**SWANSON, P.**  
Causes of Reinforced Earth with Residual Soils, W85-04326 1808 8D

**SWANSON, S. D.**  
Response of Plant Species to Burial in Three Types of Alaskan Wetlands, W85-00248 1801 2L

**SWARTZ, R. C.**  
Toxicity of Sewage Sludge to *Rhepoxynius abronius*, a Marine Benthic Amphipod, W85-02203 1805 5C

**SWARTZMAN, G.**  
Simulating the Biological Effects of Toxicants in Aquatic Microcosm Systems, W85-00261 1801 5C

## AUTHOR INDEX

**SWATLOSKI, R. A.**

**SWATLOSKI, R. A.**  
Biodegradation of Sulfolane in Refinery  
Wastewater,  
W85-05275 1810 5D

**SWIDERSKA-BROZ, M.**  
Interaction Between Humic Substances and  
Some Trace Metals in Coagulation,  
W85-01581 1803 5F

**SWIFT, C. T.**  
Airborne Microwave Measurements of the  
Southern Greenland Ice Sheet,  
W85-04962 1809 2C

**SWIFT, D. J.**  
Incorporation of Plutonium, Americium and  
Curium into the Irish Sea Seabed by Biological  
Activity,  
W85-04357 1808 5B

**SWIFT, I. K.**  
Practical Steps Leading Toward the Effluent-  
Free Mill,  
W85-06058 1811 5D

**SWIFT, I. W. JR.**  
Soil Losses from Roadbeds and Cut and Fill  
Slopes in the Southern Appalachian Mountains,  
W85-03318 1807 5B

**SWINEFORD, D. M.**  
High PCB Residues in Birds from the Sheboy-  
gan River, Wisconsin,  
W85-06288 1812 5C

**SWINNERTON, C. J.**  
Protection of Groundwater in Relation to Waste  
Disposal in Wessex Water Authority,  
W85-03766 1808 5E

**SWITHENBANK, J.**  
Simulation of Dispersion of Heavy Particles in  
Confined Turbulent Flows,  
W85-00197 1801 2J

**SWITZENBAUM, M. S.**  
Temperature and Nutrient Effects on the Anaer-  
obic Expanded Bed Treating a High Strength  
Waste,  
W85-05547 1810 5D

**SYCHKOVA, G. I.**  
Ion-Scanning Potentiometry-A Method for De-  
termination of Zinc, Cadmium, Lead and  
Copper Traces in Marine and Interstitial Water  
(Ion-Skaniruyushchaya Potentiometriya -  
Metod Opredeleniya Malykh Kolichestv Tsinka,  
Kadmija, Svintsa i Medi v Morskoi Ilovoi  
Vode),  
W85-06454 1812 5A

**SYDLER, P. A.**  
Routing of Dam Break Floods,  
W85-01550 1803 2E

**SYKES, J. F.**  
Numerical Simulation of Thermal Energy Stor-  
age Experiment Conducted by Auburn Universi-  
ty,  
W85-00335 1801 4B

Sensitivity Analysis for Steady State Ground-  
water Flow Using Adjoint Operators,  
W85-05799 1810 2F

**SYKUT, K.**  
Electrochemical Determination of Pollutants in  
Sea Water: Toxic Substances and Nutrients,  
W85-02312 1805 7B

**SYLVESTER, M. A.**  
Water-Quality Study of the Russian River Basin  
During the Low-Flow Season 1973-78, Sonoma  
and Mendocino Counties, California,  
W85-03919 1808 5B

**SYLVESTER, S. L.**  
Clean Water - Counting up the Score,  
W85-03716 1807 5G

**SYMES, G. L.**  
Screening: A New Approach,  
W85-04523 1809 5D

**SYMONS, J. M.**  
History of the Attempted Federal Regulation  
Requiring GAC Adsorption for Water Treat-  
ment,  
W85-02399 1805 6E

**SYMS, M. C.**  
Down Hole Flowmeter Analysis Using an Asso-  
ciated Caliper Log,  
W85-00340 1801 2F

**SYVITSKI, J. P. M.**  
Prodelta Environment of a Fjord: Suspended  
Particle Dynamics,  
W85-06698 1812 2H

**SZAREK, S. R.**  
Moisture Stress Effects on Biomass Partitioning  
in Two Sonoran Desert Annuals,  
W85-00089 1801 2I

**SZEFER, P.**  
Chlorinated Hydrocarbons in Fish-Eating Birds  
Wintering in the Gdansk Bay, 1981-82 and 1982-  
83,  
W85-02762 1806 5B

**SZEKERES, E.**  
Fluoride Content of Drinking Water and the  
Menarcheal Age,  
W85-02475 1805 5C

**SZELZ, G. W.**  
Winter Water and Wastewater Operations,  
W85-05481 1810 5D

**SZETEY, S. Y.**  
Behavior and Degradation of Chlorpyrifos-  
methyl in Two Aquatic Models,  
W85-00162 1801 5B

**SZIDAROVSKY, F.**  
Method for Optimal Observation Network  
Design for Groundwater Management,  
W85-02463 1805 4B

**T HART, M. J.**  
Impact of Chlorine, Chlorine dioxide and Ozone  
on the Oxidation of NTA during Drinking  
Water Treatment,  
W85-02965 1806 5F

**TABBERER, R.**  
Sludge Treatment and Disposal Techniques for  
Operation of the Coleshill Sludge Destruction  
Plant, U.K.,  
W85-04006 1808 5E

**TADA, F.**  
Characteristics of Heavy Metal Distribution in  
Bottom Mud of Urban Rivers (in Japanese),  
W85-06000 1811 5B

Characteristics of Heavy Metals in the Bottom  
Mud of Mining and Urban Rivers (in Japanese),  
W85-00533 1802 5B

Distribution of Heavy Metals in Bottom Mud of  
Rivers IX. -Distribution of Total and Acid-Solu-  
ble Cu-,  
W85-00929 1802 5B

**TAFT, J. L.**  
Nutrient Enrichment of Chesapeake Bay and Its  
Impact on the Habitat of Striped Bass: A Specu-  
lative Hypothesis,  
W85-06409 1812 2L

**TAGATZ, M. E.**  
Responses of Developing Estuarine Macro-  
benthic Communities to Drilling Muds,  
W85-01845 1804 5C

**TAGHAVI, S. A.**  
Infiltration from Trickle Irrigation Source,  
W85-03816 1808 2G

**TAHA, M.**  
Chlorine as an Algicide in a Conventional Water  
Treatment Plant,  
W85-01749 1804 5F

**TAI, F.-K.**  
Practical Implications in the Use of Stochastic  
Dynamic Programming for Reservoir Oper-  
ation,  
W85-06240 1812 4A

**TAIGBENU, A. E.**  
Boundary Integral Solution to Seawater Intrusion  
Into Coastal Aquifers,  
W85-02371 1805 2F

**TAILLEFER, R.**  
Radiation and Energetic Exchanges and Ther-  
mal Balance of the Soil in the James Bay Area  
(Les échanges radiatifs et énergétiques et le bilan  
thermique du sol en Jamesie),  
W85-00142 1801 2G

**TAIT, R. D.**  
Structure and Dynamics of Zooplankton Com-  
munities, Alligator Rivers Region, N.T., Austra-  
lia,  
W85-02405 1805 2H

**TAKACS, J. F.**  
Analysis of Precipitation Collected on a Sequen-  
tial Basis,  
W85-04505 1809 5B

**TAKADONO, S.**  
Treatment of Highly Fouling Waste Waters with  
Tubular Membrane Systems,  
W85-01225 1803 5D

**TAKAHASHI, A.**  
Determination of Nitrate in Natural Waters by  
Flow-Injection Analysis,  
W85-03720 1807 5A

**TAKAHASHI, G.**  
Effect of Channel Alteration on Fish Habitat,  
W85-03507 1807 6G

**TAKAHASHI, K.**  
Behaviour of Proteinaceous Substances in the  
Estuary of the Tama River,  
W85-02531 1805 2L

**TAKAHASHI, M.**  
Effects of Vertical Mixing on Photosynthetic  
Responses,  
W85-00931 1802 2H

**TAKAMI, K.**  
Determination of Trialkyltin, Dialkyltin, and  
Triphenyltin Compounds in Environmental  
Water and Sediments,  
W85-04340 1808 5A

Trace Determination of Aldehydes in Water by  
High-Performance Liquid Chromatography,  
W85-04622 1809 5A

**TAKAMIZAWA, K.**  
Application of a Combined Chemical-Biological  
Treatment to High-Strength Wastewater,  
W85-00172 1801 5D

**TAKAMURA, N.**  
Overwintering of *Microcystis aeruginosa* Kutz.  
in a Shallow Lake,  
W85-03245 1807 2H

**TAKANO, M.**  
Behaviour of Dissolved Silica During the  
Mixing of River and Sea Waters in Tokyo Bay,  
W85-03632 1807 2H

**TAKAYAMA, S.**  
Stormflow Generation in a Headwater Basin in  
the Tama Hills (in Japanese),  
W85-00190 1801 2E

**TAKAYANAGI, K.**  
Behaviour of Dissolved Iodine in the Upper St.  
Lawrence Estuary,  
W85-07036 1812 2K

## AUTHOR INDEX

TARKPEA, M.

**TAKEDA, A.**  
Quantitative Analysis of Phosphorus Cycle in the Shallow Brackish Lake Nakanoumi, Japan, W85-00761 1802 2H

**TAKEMOTO, S.**  
Determination of Trialkyltin, Dialkyltin, and Triphenyltin Compounds in Environmental Water and Sediments, W85-04340 1808 5A

**TAKEMURA, M.**  
Water Quality and Rock Weathering in the Upper Reaches of the Tenryu River in Connection with Landslide Disasters, W85-00187 1801 2K

**TAKESHITA, M.**  
Determination of Total Phthalate Esters in Wastewaters by Differential Pulse Polarography, W85-06164 1811 5A

**TAKESHITA, R.**  
Determination of Trace Azaarenes in Water by Gas Chromatography and Gas Chromatography-Mass Spectrometry, W85-00165 1801 5A

**TAKETOMI, M.**  
Determination of Trialkyl and Triaryl Phosphates in Environmental Samples, W85-04497 1809 5B

**TAKIMOTO, K.**  
Effects of Environmental Gradients Concerning Water Qualities on the Structure of the Phytoplankton Community in the Coastal Sea, W85-06853 1812 2L

Simulation Study of Eutrophication in Hiroshima Bay, W85-06739 1812 2L

**TAKIMOTO, Y.**  
Fate of Fenitrothion in Several Developmental Stages of the Killifish (*Oryzias latipes*), W85-02422 1805 5C

**TAL, A.**  
Flow Toward Storage Tunnels Beneath a Water Table; 2. Three-Dimensional Flow, W85-02663 1805 4B

**TALBOT, J.**  
Distribution of Aquatic Macrophytes in Lake Alexandrina, New Zealand, W85-03074 1806 2H

**TALBOT, V.**  
Cadmium and Other Heavy Metal Concentrations in Selected Biota from Cockburn Sound, Western Australia, W85-00781 1802 5A

**TALLIS, J. H.**  
Mass Movement and Erosion of a Southern Pennine Blanket Peat, W85-06368 1812 2J

**TAM, F. Y.**  
Sewage Sludge for Cultivating Freshwater Algae and the Fate of Heavy Metal at Higher Trophic Organisms; IV. Heavy Metal Contents in Different Trophic Levels, W85-02237 1805 5E

**TAMAI, N.**  
Estimation of Acceptable Water Quality Conditions in the Tama River, Japan, W85-01403 1803 5B

**TAMARI, Y.**  
Studies on Chemical Species Dissolved in Groundwaters from the Neogene Strata. A Comparison between Shallow and Deep Groundwaters (in Japanese), W85-00537 1802 2F

Studies on Chemical Species Dissolved in Shallow Groundwaters of Arima Rhyolite Strata, W85-02251 1805 2K

**TAMM, O. M.**  
Water Protection Problems in Estonia: Hygienic Aspects, W85-04113 1808 5G

**TAMMINEN, T.**  
Effects of Ammonium Effluents on Planktonic Primary Production and Decomposition in a Coastal Brackish Water Environment. I. Interrelations Between Abiotic and Biotic Components of the Planktonic Ecosystem, W85-01840 1804 5C

Effects of Ammonium Effluents on Planktonic Primary Production and Decomposition in a Coastal Brackish Water Environment, I. Nutrient Balance of the Water Body and Effluent Tests, W85-01627 1803 5C

**TAN, K. H.**  
Effect of Sewage Sludge on Mobilization of Surface-Applied Calcium in a Greenville Soil, W85-06748 1812 5E

**TAN, S. K.**  
Erosion of Cohesive Soils, W85-02953 1806 2J

**TAN, T. K.**  
Comparison of Fungi from Polluted Water, W85-01449 1803 5C

**TAN, W. H.**  
Tolerance to and Uptake of Lead in the Green Mussel, *Perna viridis* (L.), W85-04708 1809 5C

**TANAKA, H.**  
Model System of Bulking and Flocculation in Mixed Culture of *Sphaerotilus* sp. and *Pseudomonas* sp. for Dissolved Oxygen Deficiency and High Loading, W85-07115 1812 5D

Water Quality Characteristics of the Harima Nada Coastal Area, COD Load Caused by Primary Production, W85-04969 1810 2L

**TANAKA, I.**  
Biological Wastewater Treatment in a Fluidized Bed Reactor, W85-07110 1812 5D

**TANAKA, J.**  
Comparison of Solvent Reduction Methods for Concentration of Polycyclic Aromatic Hydrocarbon Solutions, W85-03670 1807 5A

**TANAKA, K.**  
Determination of Total Phthalate Esters in Wastewaters by Differential Pulse Polarography, W85-06164 1811 5A

**TANAKA, N.**  
Studies on a Freshwater Red Tide in Lake Biwa - I. Changes in the Distribution of Phytoplankton and Nutrients (in Japanese), W85-00541 1802 5C

**TANAKA, T.**  
Ion-Chromatographic Determination of Divalent Metal Ions (Co, Ni, Cu, Zn, Cd) Using EDTA as Complexing Agent, W85-05104 1810 5A

**TANAKA, Y.**  
Behaviour of Proteinaceous Substances in the Estuary of the Tama River, W85-02531 1805 2L

Thermodynamic Properties of R13 (CClF<sub>3</sub>), R23 (CH<sub>2</sub>F<sub>3</sub>), R152a (C<sub>2</sub>H<sub>4</sub>F<sub>2</sub>) and Propane Hydrates for Desalination of Sea Water, W85-03890 1808 3A

**TANCREDI, A. C. S. N. F.**  
Precipitation in the Central Amazon Basin: The Isotopic Composition of Rain and Atmospheric Moisture at Belém and Manaus, W85-02816 1806 2B

**TANG, A. J. S.**  
Long-Term Precipitation Quality and Wet Deposition Fields in the Sudbury Basin, W85-03595 1807 5B

**TANGBORN, W. V.**  
Effect of Glaciers on Streamflow Variations, W85-06512 1812 2E

**TANGLEY, L.**  
Local Problems Become National Issue, W85-00125 1801 5G

**TANIMOTO, T.**  
Turbid Bottom Water Layer and Bottom Sediment in the Seto Inland Sea, W85-02530 1805 2J

**TANIOS, B. Z.**  
Marginal Operation Field of Existing MSF Distillation Plants, W85-03976 1808 3A

**TANNER, D. K.**  
Toxicity of Fenitrothion to Fathead Minnows (*Pimephales promelas*) and Alternative Exposure Duration Studies with Fenitrothion and Endosulfan, W85-02421 1805 5C

**TANNER, E. V. J.**  
Water Relations of Jamaican Upper Montane Rain Forest Trees, W85-04824 1809 2I

**TANNER, G. W.**  
Mineral Concentration within Freshwater Marsh Plant Communities, W85-02250 1805 6G

**TAPP, J. S.**  
Chemical Flocculation for Suspended Solids Removal at Remote Mine Sites, W85-04730 1809 5D

**TAPPEL, K. C.**  
Non-Explosive Demolition of Rock to Improve Fish Habitat, W85-03837 1808 8I

**TARAN, O. N.**  
Fundamentals Concerning Ecological-and-Economic Estimation of the Water and Water-Adjacent Ecosystems Functioning Changes Under the Influence of Anthropogenic Factors (Osnovnye Polozeniya Ekologo-Ekonomiceskoi Otseki Izmeneni Funktsionirovaniya Vodnykh Okolovodnykh Ekosistem pod Vozdeistviem Antropogennykh Faktorov), W85-06378 1812 6G

**TARASOV, S. A.**  
Use of Uranium-Series Isotopes for Studying Thermal Waters of the Frunze Region, W85-05150 1810 2F

**TARBELL, K. A.**  
Probabilistic Modeling of Soil Loss from Surface Mined Regions, W85-06090 1811 2J

**TARE, V.**  
Kinetic Limitations on the Selective Precipitation Treatment of Electronics Wastes, W85-05698 1810 5D

**TARGETT, T. E.**  
Fish-Nursery Use in Georgia Salt-Marsh Estuaries: The Influence of Springtime Freshwater Conditions, W85-03246 1807 2L

**TARKPEA, M.**  
Use of the Bivalve *Mytilus edulis* as a Test Organism for Bioconcentration Studies. I. De-

## AUTHOR INDEX

**TARKPEA, M.**

signing a Continuous-Flow System and Its Application to Some Organochlorine Compounds, W85-06743 1812 5C

**TARLOCK, A. D.** Endangered Species Act and Western Water Rights, W85-06531 1812 6E

**TARNHOLM, A.** Tri- and Tetra-Chloroveratrole, Metabolites Produced by Bacterial O-Methylation of Tri- and Tetra-Chloroguaiacol: An Assessment of Their Bioconcentration Potential and Their Effects on Fish Reproduction, W85-03310 1807 5C

**TARQUIN, A.** Conventional Water Process Costs Studied, W85-01706 1804 5D

**TARTER, M. E.** Graphical Analysis of the Interrelationships among Waterborne Asbestos, Digestive System Cancer and Population Density, W85-02708 1806 5C

**TARUTANI, T.** Microdetermination of Silicic Acid in Water by Gel-Phase Colorimetry with Molybdenum Blue, W85-03340 1807 5A

**TASH, J. C.** Unusual Diel pHs in Water as Related to Aquatic Vegetation, W85-01472 1803 2H

**TATARKO, J.** Windbreak Effects on Soil Water and Wheat Yield, W85-03365 1807 3F

**TATE, C.** Converting from Chlorine to Chloramines: A Case Study, W85-05474 1810 5F

**TATE, C. M.** Effects of Watershed Disturbance on Dissolved Organic Carbon Dynamics of a Stream, W85-00225 1801 5B

Influence of Hydrologic Conditions and Successional State on Dissolved Organic Carbon Export from Forested Watersheds, W85-00254 1801 5B

**TATE, D. J.** Increased Diversion at Chicago: Initial Assessment, W85-01580 1803 6B

**TATE, D. M.** Canadian Water Management: A One Armed Giant, W85-04685 1809 6A

**TATSUKAWA, R.** Brominated Phenol Production from the Chlorination of Wastewater Containing Bromide Ions, W85-02776 1806 5B

**TATTERSFIELD, J.** Masina Dam in Kenya, W85-04471 1809 8A

**TATUR, A.** Biotic Structure and Processes in the Lake System of R. Jorka Watershed (Masurian Lakeland, Poland), II. Physical and Chemical Properties of Water and Sediments, W85-00903 1802 2H

**TAUSSIG, H. J.** Overturn in a Hypertrophic, Warm, Monomictic Impoundment (Hartbeespoort Dam, South Africa), W85-01481 1803 2H

**TAVOLARO, J. F.** Sediment Budget Study for Clamshell Dredging and Disposal Activities, W85-00048 1801 5E

Sediment Budget Study of Clamshell Dredging and Ocean Disposal Activities in the New York Bight, W85-04598 1809 6G

**TAVRIZOV, V. M.** Experience in Drilling and Blasting Operations to Loosen Underwater Rocks, W85-01148 1803 8H

**TAWFIQ, S. J.** Residue Levels of Organochlorine Insecticides in Sewage Plant Effluent, W85-06875 1812 5B

**TAYLOR, C. H.** Rainfall Interception on a Small Forested Watershed within the Kawartha Lakes Region, W85-04578 1809 2I

**TAYLOR, C. R. JR.** More Economical Treatment of Chromium-Bearing Wastes, W85-05244 1810 5D

**TAYLOR, D.** Managing Organics in Sludge Reuse Programs, W85-02796 1806 5E

**TAYLOR, D. N.** Waterborne Transmission of Campylobacter Enteritis, W85-02188 1805 5F

**TAYLOR, F.** Leaf Litter Processing in a Virginia Reservoir: The Role of Temperature and Fish, W85-05632 1810 2H

**TAYLOR, G. L.** Land Treatment of Waste as an Industrial Siting Advantage, W85-05249 1810 5D

**TAYLOR, H. E.** Water Analysis, W85-07112 1812 5A

**TAYLOR, H. M.** Differences in Water Uptake Rates of Soybean Roots Associated with Time and Depth, W85-00218 1801 2I

**TAYLOR, K.** Sediment Transport and Morphology at the Surf Zone of Presque Isle, Lake Erie, Pennsylvania, W85-03349 1807 2J

**TAYLOR, K. S.** Growth of Cladophora glomerata in a River Receiving Sewage Effluent, W85-01723 1804 5C

**TAYLOR, M.** Drier Sludge Ends Landfill Leaching Concerns, W85-04650 1809 5D

**TAYLOR, M. R.** Interactive Data Management for Resource Planning and Analysis, W85-05493 1810 6A

**TAYLOR, R. H.** Bacterial Colonization of Point-of-Use Water Treatment Devices, W85-04834 1809 5F

**TAYLOR, R. W.** Application of Combined Seismic and Electrical Measurements to the Determination of the Hydraulic Conductivity of a Lake Bed, W85-03178 1806 7B

Determination of the Hydrogeologic Properties of Lakebeds Using Offshore Geophysical Surveys, W85-03148 1806 2H

Seasonal Variations of 210-Pb and 210-Po Concentrations in an Oligotrophic Lake, W85-03212 1806 2H

**TAYLOR, S. W.** Simple Methods for Estimating Backwater and Constriction Scour at Bridges and Abrupt Encroachments, W85-04334 1808 8B

**TAYLOR, W. D.** Phosphorus Flux through Epilimnetic Zooplankton from Lake Ontario: Relationship with Body Size and Significance to Phytoplankton, W85-03606 1807 2H

**TCHOBANOGLOUS, G.** Rational Design Parameters for Ammonia Conversion in Water Hyacinth Treatment Systems, W85-07052 1812 5D

**TEASE, B.** Effect of Mineral Acids and Aluminum from Coal Leachate on Substrate Periphyton Composition and Productivity, W85-02246 1805 5C

**TEDROW, J. C. F.** Pedologic Properties of New Jersey Tidal Marshes, W85-04955 1809 2L

**TEITTINEN, E.** Hydroelectric Generator Used by Treatment Plant, W85-02301 1805 5D

**TEJADA, S.** Underground Tanks Contaminate Groundwater, W85-00287 1801 5B

**TEJWANI, K. G.** Reservoir Sedimentation in India - Its Causes, Control, and Future Course of Action, W85-04439 1809 6G

**TELANG, S. A.** Fate of Organic Compounds in Mountain Streams in the Marmot Basin: A Process Reactor Model, W85-00406 1801 2K

**TELEGDI, L.** Description of the Multi-Annual Eutrophication Process of Shallow Lakes by a Discrete Time Watershed Development Model, W85-01305 1803 5C

**TELESHEV, V. I.** Evaluation of the Effectiveness of Measures to Shorten the Construction Time of Mass Concrete Structures of Hydroelectric Stations, W85-00476 1801 6B

Operating Conditions of Earth Dams on Undermined Territories, W85-00443 1801 8D

**TEMERMAM, E.** Optimization and Evaluation of Reduction-Aeration/Amalgamation for the Analysis of Mercury in Drinking-Water by Cold-Vapour Atomic Absorption Spectrometry (CVAAS), W85-06057 1811 5A

**TEMMINCK, J. H. M.** Morphological Changes in the Gill of Carp (*Cyprinus carpio L.*) Exposed to Acutely Toxic Concentrations of Methyl Bromide, W85-02916 1806 5C

**TEMPLEMAN, R. F.** On-Line Monitoring, Data Management and Forecasting System for the Bedford Ouse River Basin, W85-01408 1803 7B

**TENUAUD, R.** French and European Navigable Waterway Systems (Les Réseaux des Voies Navigables Françaises et Européennes), W85-00368 1801 4A

## AUTHOR INDEX

THEURER, F. D.

**TENCH, H. B.**  
Effluent Standards for Reclaiming Industrial Rivers,  
W85-01405 1803 5D

Use of Performance Indicators in Sewage Treatment Appraisal,  
W85-04510 1809 5D

**TENGERDY, R. P.**  
Two-Phase Anaerobic Fermentation of Liquid Swine Waste to Methane,  
W85-04659 1809 5D

**TENNYSON, L. C.**  
Alteration of Streamflow Characteristics Following Road Construction in North Central Idaho,  
W85-02372 1805 2E

**TENYGL, J.**  
Electrochemical Methods and Sensors for Monitoring of Water,  
W85-02315 1805 7B

**TEODORESCU, L.**  
Influence of the Geothermal Waters on Fishes and Aquatic Invertebrates, in the Plain of Banat (Influenta Apelor Geotermală, din Cimpia Banatalui, Asupra Pestilor și Nevertebratelor Acvatice),  
W85-03532 1807 5C

**TERAGUHI, M.**  
Effects of Siltation on Embryonic Mortality of Trout,  
W85-06311 1812 5C

**TERAOKA, H.**  
Amounts of Suspended Solids and Elements Transported Annually from the Takahashi River (Japan) to Estuary (in Japanese),  
W85-02253 1805 2L

Behavior of Elements in the Takahashi, Japan River Basin,  
W85-01292 1803 5B

Behaviour of Trace Elements in the Takahashi River Estuary, Japan,  
W85-00186 1801 2K

Desorption and Coagulation of Trace Elements During Estuarine Mixing,  
W85-03208 1806 2K

Elemental Composition of Suspended Particles From the Yellow and Yangtze Rivers,  
W85-01703 1804 2J

**TERASHIMA, A.**  
Effects of Bottom Dredging on Some Environmental Factors and Benthic Animals in the South Basin of Lake Biwa (in Japanese),  
W85-00528 1802 2H

**TERENT'YEV, A. A.**  
Change in the Hydrophysical Properties of Peat-Bog Soils after Application of Hydrolyzed Polyacrylonitrile,  
W85-06752 1812 3B

**TERENTJEWKA, N. A.**  
Procedures for Intensive Biological Treatment of Municipal Wastewater in the USSR (Verfahren zur intensiven biologischen Reinigung Städtischer Abwasser in der UdSSR),  
W85-03461 1807 5D

**TERJUNG, W. H.**  
Actual and Potential Yield for Rainfed and Irrigated Wheat in China,  
W85-01057 1802 3F

Crop Water Requirements for Rainfed and Irrigated Wheat in China and Korea,  
W85-06687 1812 6D

**TERLIKOWSKI, T.**  
Operation of Reservoir Systems with Special Reference to the Upper Wisla,  
W85-04102 1808 6A

**TERLIZZI, D. E.**  
Effects of the Herbicide Atrazine on an Oyster-Food Organism,  
W85-01808 1804 5C

**TERRAGNI, F.**  
Identification of Phosphorus Dynamics in Kootenay Lake, Canada,  
W85-01111 1802 2H

**TERRIER, A.**  
Water Supply Methods for Navigable Waterways; Optimization of a Project with Locks; Pump Stations (Les méthodes d'alimentation en eau des voies navigables; Optimisation d'un projet avec écluses; Les stations de pompage),  
W85-00369 1801 4A

**TERRY, J. E.**  
Water-Quality Assessment of the Illinois River Basin, Arkansas,  
W85-03925 1808 5B

**TERRY, K. A.**  
Determination of Chlorinated Benzenes in Bottom Sediment Samples by WCOT Column Gas Chromatography,  
W85-06256 1812 5A

**TERRY, W. S.**  
Mineral Concentration within Freshwater Marsh Plant Communities,  
W85-02250 1805 6G

**TERSTRIEP, M. L.**  
Effectiveness of Street Sweeping in Urban Runoff Pollution Control,  
W85-00744 1802 5G

**TERZIDIS, G.**  
Computation of the Unsteady Two-Dimensional Free Surface of Groundwater by the Finite-Element Method,  
W85-03082 1806 2F

**TERZIS, G. C.**  
Nomographic Estimation of Performance Parameters in Sprinkler Irrigation,  
W85-03478 1807 3F

**TESCH, W.**  
Performance of an Anaerobic Filter for Purification and Methane Production from Waste Water of a Sugar Refinery,  
W85-01605 1803 5D

**TESSIER, A.**  
Accumulation of Copper and Zinc in the Yellow Water Lily, *Nuphar variegatum*: Relationships to Metal Partitioning in the Adjacent Lake Sediments,  
W85-04837 1809 5B

Aluminum Speciation in Surface Waters on the Canadian Pre-Cambrian Shield,  
W85-02634 1805 2K

Relationships between the Partitioning of Trace Metals in Sediments and Their Accumulation in the Tissues of the Freshwater Mollusc *Elliptio complanata* in a Mining Area,  
W85-03308 1807 5B

Trace Metals in Oxic Lake Sediments: Possible Adsorption onto Iron Oxyhydroxides,  
W85-04757 1809 5B

**TESSIER, G.**  
Flood Protection in the Loire Valley Downstream Vienne Confluence (Protection des Vals de Loire en Aval de la confluence avec la Vienne),  
W85-02355 1805 4A

**TESTA, A. J.**  
Evaluation of Hollow Fiber Ultrafiltration as a Pretreatment for Reverse Osmosis Desalination of Seawater,  
W85-01830 1804 3A

**TESTA, S. M.**  
Ground Water Contamination of Two Production Wells: A Case History,  
W85-00363 1801 5F

**TEUBER, W.**  
River Gauging by Ultrasonics/Workshop Report Koblenz 1983 (Bericht über die fachliche Aussprache am 14./15. September 1983 in Koblenz),  
W85-00969 1802 7B

**TEYSIE, J.-L.**  
Accumulation and Toxicity of Cd, Zn, Ag, and Hg in Four Marine Phytoplankton,  
W85-02758 1806 5C

**TEZUKA, Y.**  
Effect of Nutrient Enrichment on the Natural Phytoplankton Community of Lake Biwa Maintained in Glass Bottles,  
W85-03510 1807 5C

Seasonal Variations of Dominant Phytoplankton, Chlorophyll a and Nutrient Levels in the Pelagic Regions of Lake Biwa,  
W85-00188 1801 2H

**THAIN, J. E.**  
Effects of Mercury on the Prosobranch Mollusc *Crepidula fornicata*: Acute Lethal Toxicity and Effects on Growth and Reproduction of Chronic Exposure,  
W85-04867 1809 5C

**THAKUR, S. S.**  
Transport Studies of Multielectrolyte Solutions Across a Sintered Disc Impregnated with Cellulose Acetate,  
W85-05035 1810 3A

**THAMPAPILLAI, D. J.**  
Flood Damage Mitigation: A Review of Structural and Nonstructural Measures and Alternative Decision Frameworks,  
W85-06495 1812 6B

**THANGARAJAN, M.**  
Evolution of Regional Hydrogeologic Setup of a Hard Rock Aquifer Through R-C Analog Model,  
W85-06822 1812 2F

**THANH, N. C.**  
Flocculation Time Optimization in Direct Water Filtration,  
W85-03724 1807 5D

**THAYER, D. D.**  
Toxicity of Adjuvants to Bluegill,  
W85-04354 1808 5C

**THAYER, J. S.**  
Iodomethane as a Potential Metal Mobilizing Agent in Nature,  
W85-02350 1805 5B

**THEIS, T. L.**  
Multicomponent Solute Transport with Sorption and Soluble Complexation,  
W85-04171 1808 5B

Multisolute Mass Transport with Chemical Interaction Kinetics,  
W85-05534 1810 5B

**THERIOT, E. A.**  
Compatibility and Infectivity of a Cercospora Rodmanii Formulation with Enhancing Agents,  
W85-06997 1812 4A

**THEUNE, C.**  
Denudation and Reservoir Sedimentation in Middle Europe (Feststoffabtrag und Staauraumverlandung in Mitteleuropa),  
W85-03439 1807 2J

**THEURER, F. D.**  
Interaction Between Riparian Vegetation, Water Temperature, and Salmonid Habitat in the Tu-cannon River,  
W85-06239 1812 2H

## AUTHOR INDEX

**THEUS, P. M.**

**THEUS, P. M.**  
Comparative Studies for Indication of Chlorine in Drinking and Bathing Water on the Basis of o-Tolidine and Diethyl-p-phenylenediamine (DPD) (Vergleichende Untersuchungen Zum Nachweis von Chlor im Trink- und Badewasser auf der Basis von o-Tolidin und Diethyl-p-Phenylenamin (DPD)),  
W85-06276 1812 5F

**THIBAULT, D. H.**  
Uptake by Plants and Migration of Uranium and Chromium in Field Lysimeters,  
W85-01281 1803 5B

**THIBODEAU, F. R.**  
Modification of Bog Vegetation by Power Utility Rights-of-way,  
W85-06606 1812 4C

**THIELE, M.**  
Finite-Element Analysis of Dispersion-Affected Saltwater Upconing below a Pumping Well,  
W85-04015 1808 2L

**THIENNOT, R.**  
Thermal Energy from the Sea: Stations Using the Closed Thermodynamic Cycle (Energie Thermique des Mers: Les Centrales a Cycle Thermodynamique Ferme),  
W85-00385 1801 8C

**THIESSE, B. R.**  
Relationships among Oxygen Flux, Soil Water Tension, and Aeration Porosity in a Drying Soil Profile,  
W85-04956 1809 2G

**THIRKELL, D.**  
Model for the Movement of Sewage Effluent, According to Sea State, in a Bay Situation,  
W85-00560 1802 5B

**THIRIOT, C.**  
Sewerman and the Scientist; A Parable for the Academic Following a Course of Decontamination (L'égoutier et le savant; Conte moral pour universitaire en cure d'assainissement),  
W85-02351 1805 5D

**THOEM, R. L.**  
Jordan Meets Water Supply Challenges,  
W85-00710 1802 5F

**THOM, R. E.**  
Increased Chloroform Production from Model Components of Aquatic Humus and Mixtures of Chlorine Dioxide/Chlorine,  
W85-03664 1807 5F

**THOM, R. M.**  
Primary Production in Grays Harbor Estuary, Washington,  
W85-02470 1805 2L

**THOMANN, R. V.**  
Physio-Chemical and Ecological Modeling the Fate of Toxic Substances in Natural Water Systems,  
W85-00263 1801 5B

**THOMAS, A. W.**  
Conservation Practice Effects on Phosphorus Losses from Southern Piedmont Watersheds,  
W85-05969 1811 5B

Partitioning Variable Storms to Rainfall Excess and Soil Water,  
W85-05345 1810 2A

Photogrammetric Technique for Measuring Soil Erosion,  
W85-01323 1803 7B

Return Period Analysis of Minimum Events Using Sliding Polynomials,  
W85-01194 1803 6A

**THOMAS, B. L.**  
Microbial Transformation of Alkylpyridines in Groundwater,  
W85-06374 1812 5C

**THOMAS, E. A.**  
Development of Oxygen Conditions in Lake Zurich from 1936 to 1982 (Entwicklung der Sauerstoffverhältnisse im Zurich-Obersee und im Zurich-Untersee von 1936 bis 1982),  
W85-02529 1805 2H

**THOMAS, F. G.**  
Residues Related to Agricultural Chemicals in the Groundwaters of the Burdekin River Delta, North Queensland,  
W85-04039 1808 5B

**THOMAS, G.**  
Checklist of the Species of Fishes in Lake Maurepas, Louisiana,  
W85-06488 1812 2H

**THOMAS, G. J.**  
Demography and Flora of the Ouse Washes, England,  
W85-00116 1801 2L

**THOMAS, G. W.**  
Modelling Water Flow through Undisturbed Soil Cores Using a Transfer Function Model Derived from 3HOH and Cl transport,  
W85-01326 1803 2G

**THOMAS, J. C.**  
Movement of Nitrogen Species Through Three Soils below Septic Fields,  
W85-01293 1803 5B

Rainbow Water Quality from Fresh Mine Spoil,  
W85-02744 1806 5B

**THOMAS, J. L.**  
Rainfall Measurement Accuracy in FACE: A Comparison of Gage and Radar Rainfalls,  
W85-00915 1802 7B

**THOMAS, J. T.**  
Recovery of Damages by States for Fish and Wildlife Losses Caused by Pollution,  
W85-02181 1805 5C

**THOMAS, L. E.**  
Dissecting a Dam,  
W85-04027 1808 8D

**THOMAS, M.**  
Pond Sediments as Historical Record of Heavy Metals Fallout,  
W85-00548 1802 5B

Suspended-Solids Load of the Tributaries of the Sussen See (Die Schwebstoffbelastung der Zuflüsse zum Sussen See),  
W85-06524 1812 2J

**THOMAS, M. L.**  
Communities and Ecosystems,  
W85-05592 1810 5C

**THOMAS, N. A.**  
Quality-Assurance Data for Routine Water Analysis in the Laboratories of the U.S. Geological Survey for Water-Year 1982,  
W85-01768 1804 7C

**THOMAS, P. A.**  
Nitrogen and Establishment of a Beetle for Biological Control of the Floating Weed Salvinia in Papua New Guinea,  
W85-06891 1812 4A

**THOMAS, P. M.**  
Nutrient Losses in Runoff from Conventional and No-Till Corn Watersheds,  
W85-01290 1803 5B

**THOMAS, R. F.**  
Groundwater Supply Survey,  
W85-00702 1802 5F

**THOMAS, R. H.**  
Rheology of Glacier Ice,  
W85-05112 1810 2C

**THOMAS, R. L.**  
Comparison of Sediment Energy-Texture Relationships in Marine and Lacustrine Environments,  
W85-02058 1804 2J

Hydrocarbons in the Surficial Sediments of Lakes St. Claire, Erie, and Ontario,  
W85-02860 1806 5B

**THOMAS, S. D.**  
Techniques for Making Finite Elements Competitive in Modeling Flow in Varably Saturated Porous Media,  
W85-02366 1805 2G

**THOMAS, W.**  
Behaviour of Organic Micropollutants (PAH, PCB, and BHC) and of a Fecal Sterol in the Husum Estuary and in the Adjacent North Frisian Wadden Sea (Verhalten organischer Umweltchemikalien (PCA, PCB und HCH) und eines fakalen Sterols in der Husumer Aue und auf den angrenzenden Watten - Nordfriesland),  
W85-04808 1809 5B

Behaviour of Some PAH, PCB and Organochlorine Pesticides in an Estuary, a Comparison - Exe, Devon,  
W85-03286 1807 5B

Spatial and Temporal Concentration Gradients of PAH (Fluoranthene, Benzo(a)pyrene), gamma-BHC and 2,4-D in Samples of Soil, Soil Water and Ground Water in an Agricultural Research Area,  
W85-03289 1807 5B

**THOMAS, W. H.**  
Biogeochemical Fate and Toxicity of Mercury in Controlled Experimental Ecosystems,  
W85-00651 1802 5B

**THOME, J.-P.**  
Relative Importance of Dietary and Environmental Sources of Lindane in Fish,  
W85-02779 1806 5B

**THOMPSON, D. E.**  
Flow, Thermal Structure, and Subglacial Conditions of a Surge-Type Glacier,  
W85-00958 1802 2C

**THOMPSON, D. W.**  
Oxidation Products of Mn(II) in Lake Waters,  
W85-01107 1802 2H

**THOMPSON, G. A.**  
Rapid Assessment of Effluent Toxicities Using E. coli as a Bioindicator,  
W85-04347 1808 5A

**THOMPSON, G. M.**  
New Method for Simultaneous Measurement of Cl(-), Br(-), NO3(-), SCN(-), and I(-) at Sub-ppm Levels in Ground Water,  
W85-00356 1801 5A

Repeated Pulse Technique for Determining the Hydraulic Properties of Tight Formations,  
W85-00308 1801 2F

**THOMPSON, J. M.**  
Arsenic and Antimony in Geothermal Waters of Yellowstone National Park, Wyoming, USA,  
W85-04370 1808 2K

**THOMPSON, K. C.**  
Polyelectrolyte Conditioning of Sheffield Sewage Sludge,  
W85-04005 1808 5E

Some Problems for a Water Authority Caused by Toxic Metals in Trade Effluents,  
W85-00685 1802 5E

**THOMPSON, K. R.**  
Influence of Local Winds and the Southern North Sea on the Level of the River Thames,  
W85-00664 1802 2L

## AUTHOR INDEX

TIMCHENKO, V. M.

**RECONNAISSANCE OF THE QUALITY OF SURFACE WATER IN THE WEBER RIVER BASIN, UTAH**, W85-03930 1808 2K

**SANITARY QUALITY OF THE JORDAN RIVER IN SALT LAKE COUNTY, UTAH**, W85-03908 1808 5B

**THOMPSON, M. E.** Sulfate in Lakes of Eastern Canada; Calculated Yields Compared with Measured Wet and Dry Deposition, W85-05039 1810 5B

**THOMPSON, P. A.** Experimental Marine Ecosystem Response to Crude Oil and Corexit 9527: Part 2 - Biological Effects, W85-04875 1809 5C

**THOMSEN, TH.** Hydrological Data-Model Work in Greenland, W85-06639 1812 2A

**THOMSON, J. D.** Cellular Metal Distribution in the Pacific Oyster, *Crassostrea gigas* (Thun.) Determined by Quantitative X-Ray Microprobe Analysis, W85-05995 1811 5C

Interspecies Differences in Heavy Metal Detoxification in Oysters, W85-05896 1811 5C

**THOMSON, R. J.** Effects of Single and Multiple Waterloggings on the Growth and Yield of Winter Wheat on a Clay Soil, W85-06136 1811 2I

**THOMSON, S. J.** Irrigation Scheduling - A Valid Option with Microprocessor-Based Controls, W85-01076 1802 3F

**THORDARSON, W.** Geohydrologic and Drill-Hole Data for Test Well USW H-3, Nye County, Nevada, W85-03901 1808 2F

**THORLEY, D.** Dynamic Response of Check Valves, W85-00199 1801 8C

**THORN, J. W. JR.** Precipitation Trends and Water Consumption Related to Population in the Southwestern United States, 1930-83, W85-07067 1812 2B

**THORN, R. S.** Measuring the Site-Specific Recreation Benefits Resulting From Improved Water Quality: An Upper Bound Approach, W85-05000 1810 6A

**THORNE, C. R.** Estimating Mean Velocity in Mountain Rivers, W85-06038 1811 2E

**THORNE-MILLER, B.** Seagrass-Sediment Dynamics of a Flood-Tidal Delta in Rhode Island (U.S.A.), W85-01081 1802 2L

**THORNLIEY, S.** Effects of Livestock Wastes and Agricultural Drainage on Water Quality: An Ontario Case Study, W85-05973 1811 5B

**THORNTON, B. S.** Desertification in the United States, Status and Issues, W85-05125 1810 2D

**THORNTON, J. A.** Overturn in a Hypertrophic, Warm, Monomictic Impoundment (Hartbeespoort Dam, South Africa), W85-01481 1803 2H

**THORNTON, J. D.** Impact of Land-Use on the Acid and Trace Element Composition of Precipitation in the North Central U.S., W85-00243 1801 2K

**THORP, J. H.** Invertebrate Colonization of Submerged Wood in a Cypress-Tupelo Swamp and Blackwater Stream, W85-05120 1810 2H

**THORP, J. M.** Preliminary Calculations of Average Storm Duration and Seasonal Precipitation Rates for the Northeast Sector of the United States, W85-00242 1801 2B

**THORSEN, J. W.** 'Containment' Strategies to Manage Abandoned Hazardous Waste Sites in a Cost Effective Manner, W85-05375 1810 5E

**THORUP, J.** Quantitative Estimates and Community Structure of Invertebrates in a Macrophyte Rich Stream, W85-06443 1812 2H

**THRAN, D. F.** Quantity and Quality Variations in Subsurface Drainage, W85-01188 1803 2G

**THRASHER, M. H.** Highway Impacts on Wetlands: Assessment, Mitigation, and Enhancement Measures, W85-06065 1811 4C

**THREADGILL, E. D.** Corn Irrigation Scheduled by Tensiometer and the Lambert Model in the Humid Southeast, W85-03358 1807 2I

**THRELFALL, D.** Integrated Ground Water Monitoring Program Using Multilevel Gas-Driven Samplers and Conventional Monitoring Wells, W85-03173 1806 5A

**THRELKELD, S. T.** Spatial and Temporal Variation in the Summer Zooplankton Community of a Riverine Reservoir, W85-01001 1802 2H

**THRIENE, B.** Determination of Traces of Mercury in Waters in the ppt-Range (Zur Bestimmung von Quecksilberspuren in Wassern im ppt-Bereich), W85-03280 1807 5A

**THON, R. W.** Choosing Sewage Ash Disposal Sites in the Twin Cities Metropolitan Area, W85-05366 1810 5D

**THUM, A. B.** Effects of the Black River (Cape, South Africa) on the Distribution and Survival of Marine Pismomafauna, W85-05861 1811 2L

**THUNVIK, R.** Determination of Formation Permeability of Double-Packer Tests, W85-01618 1803 2F

**THURMAN, V. C.** Evaluating Sedimentation and Various Filter Media for Removal of Giardia Cysts, W85-04832 1809 5F

**THURMOND, C. J.** Ground Water in the Greater Atlanta Region, Georgia, W85-00866 1802 2F

**TICE, A.** Transport of Water in Frozen Soil: III. Experiments on the Effects of Ice Content, W85-03477 1807 2G

Transport of Water in Frozen Soil; IV. Analysis of Experimental Results of the Effects of Ice Content, W85-04161 1808 2G

**TICE, A. R.** Effects of Magnetic Particles on the Unfrozen Water Content of Frozen Soils Determined by Nuclear Magnetic Resonance, W85-03093 1806 2G

**TIDSWELL, M. A.** Industrial Effluent Treatment at Sewage-Treatment Works: The Tadcaster Experience, W85-04521 1809 5D

**TIEDEMANN, A. R.** Plant Nutrient Losses by Soil Erosion and Mass Movement after Wildfire, W85-05972 1811 2J

**TIEDJE, J. M.** Temporal Response of Soil Denitrification Rates to Rainfall and Irrigation, W85-05187 1810 2G

**TIETJEN, J. H.** Use of Free-Living Nematodes as a Bioassay for Estuarine Sediments, W85-01354 1803 5A

**TIK, C.** Case Study of Heavy Rain Spell on 13th-25th December 1982 over the East Coast of Peninsular Malaysia and Singapore, W85-02125 1804 2B

**TIKHONOV, A. I.** Investigation of the Possibilities of Uranium Isotopic Modeling of Processes of Groundwater Formation and Circulation under Conditions of the Development of Surface Streams and Short Transit Zone, W85-04095 1808 2F

**TIKHONOVA, L. S.** Effect of Pesticides on Russian Sturgeon, *Acipenser gueldenstaedti* (*Acipenseridae*), in the Embryonic-Larval Period, W85-02854 1806 5C

**TILL, D. G.** Effect of Baquacil on Pathogenic Free-Living Amoebae (PFLA) 3. Increased Baquacil Concentration and Exposure Time in the Presence of Bacteria, W85-02506 1805 5F

**TILLEY, P. A. G.** In Vitro Effects of Acephate on Acetylcholinesterase Activity in the Brain and Gills of Rainbow Trout, *Salmo gairdneri*, W85-00171 1801 5C

**TILLMAN, R. W.** Drainage Losses of Potassium from a Yellow-Grey Earth Soil, W85-06183 1812 2K

**TILSWORTH, T.** Alaska Seafood Processing Industry, W85-05568 1810 5D

Cold Climate Facultative Lagoons, W85-04048 1808 5D

**TIMCHENKO, V. M.** Forms of Copper Migration in Fresh and Brackish Water Bodies (Formy Migratsii Medi v Presnykh i Solonovatovodnykh Vodoemakh), W85-06463 1812 5A

Relation of Water Transparency to Suspended Substance Content in Large Rivers and Water

**AUTHOR INDEX**

**TIMCHENKO, V. M.**

Bodies of the Ukraine (O Svyazi Prozrachnosti Vody s Soderzhaniem Vzveshennykh Veshchestv v Krupnykh Rekakh i Vodoemakh Ukrayiny),  
W85-06462 1812 5G

Suspended Load of the Danube in the Danube-Dnieper Water Supply System (Vzveshennye Nanosy Dunaya v Sisteme Vodokhoystvennogo Kompleksa Dunai-Dnepr),  
W85-06479 1812 2J

**TIMMINS, S. M.**  
High Resolution Scanner Data for the Detection of Soil Moisture Variation,  
W85-01177 1803 2G

**TIMMS, M.**  
River Bure, United Kingdom: Patterns of Change in Chemistry and Phytoplankton in a Slow-Flowing Fertile River,  
W85-05676 1810 2E

**TIMOFEEVA, S. S.**  
Elodea in Lake Baikal (Elodeya Kanadskaya v oz.Baikala),  
W85-06380 1812 2H

Optimization of the Hydrobotanic Method of Wastewater Treatment to Remove Aromatic Amines by Mathematical Experimental Design Methods,  
W85-04140 1808 5D

**TIPPING, E.**  
Aggregation of Aquatic Humic Substances,  
W85-01106 1802 2K

Oxidation Products of Mn(II) in Lake Waters,  
W85-01107 1802 2H

Seasonal Variations in the Concentrations of Humic Substances in a Soft-Water Lake,  
W85-01590 1803 2H

Temperature Dependence of Mn(II) Oxidation in Lakewaters: A Test of Biological Involvement,  
W85-01130 1803 2H

**TIPPIT, R.**  
Changes in the Naiad Fauna of the Cumberland River below Lake Cumberland in Central Kentucky,  
W85-01921 1804 6G

**TIRAVANTI, G.**  
Influence of the Charge Density of Cationic Polyelectrolytes on Sludge Conditioning,  
W85-04494 1809 5D

**TIREN, T.**  
Influence of Nitrate on the Phosphorus Flux to and from Oxygen Depleted Lake Sediments,  
W85-05716 1810 2K

**TISON, D. L.**  
Legionella Incidence and Density in Potable Drinking Water Supplies,  
W85-00101 1801 5B

**TISUE, T.**  
Preconcentration of Submicrogram Amounts of Metals from Natural Waters for X-ray Energy Spectrometric Determination Using Pyrrolidinecarboxylic Acid,  
W85-04621 1809 5A

**TITLEBAUM, M.**  
Oxygen Uptake Rates Associated with Biological Treatment of Pentachlorophenol Wastewater,  
W85-01161 1803 5D

**TITLEBAUM, M. E.**  
Metal Distribution and Contamination in Sediments,  
W85-06019 1811 5B

Statistical Comparison of Heavy Metal Concentrations in Various Louisiana Sediments,  
W85-06289 1812 5B

**TITUS, J. A.**  
Bacteria and Cadmium Interactions in Natural and Laboratory Model Aquatic Systems,  
W85-02206 1805 5C

**TITUS, J. E.**  
Carbon Balance for Two Sphagnum Mosses: Water Balance Resolves a Physiological Paradox,  
W85-03729 1807 2I

**TIWARI, B. K.**  
Dry Weight Loss and Changes in Chemical Composition of Pine (*Pinus kesiyia Royle*) Needles and Teak (*Tectona grandis L.*) Leaves During Processing in a Freshwater Lake,  
W85-00411 1801 2K

**TIWARI, G. N.**  
Transient Performance of a Single Basin Solar Still with Water Flowing Over the Glass Cover,  
W85-01219 1803 3A

**TJESSEM, K.**  
Environmental Fate of a Dispersed Ekofisk Crude Oil in Sea-Immersed Plastic Columns,  
W85-02431 1805 5B

**TKACHENKO, V. A.**  
Formation of Ichthyofauna in the Sasyk Reservoir Under Conditions of Freshening (Formirovaniye Ikhtiofauny Sasykskogo Vodokhranilishcha v Sloviyakh Opresneniya),  
W85-06468 1812 6G

**TKACS, T.**  
Simulation of Herbicide Concentrations in Stormflow From Forested Watersheds,  
W85-04991 1810 2A

**TOBISSIEN, P.**  
Temperature and Light Effects on the Growth of *Potamogeton crispus* in Collins Lake, New York State,  
W85-05523 1810 4A

**TOBIN, R. S.**  
Effect of Chlorination on Antibiotic Resistance Profiles of Sewage-Related Bacteria,  
W85-02139 1804 5D

Manual for Land Application of Treated Municipal Wastewater and Sludge,  
W85-04213 1808 5D

Survey of the Use of Activated Carbon Water Filters in Canadian Homes,  
W85-06102 1811 5F

**TOCA, C. G.**  
Acid Mine-Water and Agricultural Pollution in a River Skirting the Donana National Park, (Guadiamar River, South West Spain),  
W85-04293 1808 5B

**TOPPI, R. R.**  
Riparian Forests as Nutrient Filters in Agricultural Watersheds,  
W85-00127 1801 2I

**TODD, R. L.**  
Nutrient Budgets for Agricultural Watersheds in the Southeastern Coastal Plain,  
W85-04826 1809 6G

**TODHUNTER, P. E.**  
Actual and Potential Yield for Rainfed and Irrigated Wheat in China,  
W85-01057 1802 3F

Crop Water Requirements for Rainfed and Irrigated Wheat in China and Korea,  
W85-06687 1812 6D

**TODINO, G.**  
Water Quality Index for Chao Phraya River,  
W85-03807 1808 5A

**TODOROV, A. V.**  
Sahel: The Changing Rainfall Regime and the 'Normals' Used for its Assessment,  
W85-07066 1812 2B

**TODOROV, T. P.**  
Microbiological Survey on the Effect of the Blagoevgradska Bistritsa River on the Struma River Water Quality (Mikrobiologichno Izledvane na Vlyanieto na Reka Blagoevgradska Bistritsa V'rku Kachestvoto na Vodata na reka Struma),  
W85-03105 1806 5B

**TOEI, K.**  
Determination of Nitrate in Natural Waters by Flow-Injection Analysis,  
W85-03720 1807 5A

**TOERIEN, D. F.**  
Carbon Flow in a Small Turbid Man-Made Impoundment,  
W85-05740 1810 2H

Microbial Heterotrophic Activity Assessment in a Waste-water Treatment System,  
W85-04706 1809 5D

Temperature-Growth Rate Relationships of Aerobic Heterotrophic Bacteria Isolated from a Silt-laden Impoundment,  
W85-04815 1809 2H

**TOFFOLO, F.**  
Groundwater Response under an Electroneuclear Plant to a River Flood Wave Analyzed by a Nonlinear Finite Element Model,  
W85-02157 1804 2F

**TOFT, P.**  
Asbestos in Drinking Water: A Canadian View,  
W85-02715 1806 5A

**TOGOLA, D.**  
Some Data and Reflections on the Drought Resistance Mechanisms of Maize and Sunflowers (Quelques Donnees et Reflexions sur les Mecanismes de Resistance a la Secheresse a Partir des Exemples du Mais et du Tournesol),  
W85-02333 1805 2I

**TOHYAMA, Y.**  
Anaerobic Biological Decomposition of Malodorous Compounds in Kraft Pulping Wastewater,  
W85-07003 1812 5D

**TOHYAMA, E.**  
Particle Size Distribution, Chemical Composition and Calculation of Standard Mineralogical Composition of Suspended Sediment Transported by a Stream in Okinawa Island,  
W85-05996 1811 2J

**TOKAIRIN, H.**  
Inorganic Carbonate Elimination from Water Samples for Dissolved Organic Carbon Analysis,  
W85-06002 1811 5A

**TOKITAKE, T.**  
Behavior of Cadmium in Short-Necked Clam, W85-05686 1810 5C

**TOKOS, J. J. JR.**  
Wet Deposition of Trace Metals to the Western Atlantic Ocean at the Mid-Atlantic Coast and on Bermuda,  
W85-04504 1809 5B

**TOLBERT, V. R.**  
Comparison of Growth, Population Structure, and Food of the Creek Chub *Semotilus atromaculatus* in Undisturbed and Surface-Mining-Disturbed Streams in Tennessee,  
W85-02749 1806 5C

**TOLEDO, A. A. P.**  
Humic Substances in Amazonia I: Chemical Characterization of Humic and Fulvic Acids

## AUTHOR INDEX

TOSTE, A. P.

from Two Central Amazonia Lacustrine Sediments (Black and White Water Systems),  
W85-02234 1805 2H

**TOLGYESI, G.Y.**  
Mineral Substances of Aquatic and Terrestrial Vegetation in the Storage Tank at Kiskore,  
W85-03119 1806 5B

**TOLIKAS, P.**  
Analytical Treatment of Unsteady Horizontal Seepage,  
W85-03782 1808 2F

**TOLIKAS, P. K.**  
Similarity and Iterative Solution of the Boussinesq Equation,  
W85-03080 1806 2F

**TOLKACHEV, G. S.**  
Seismic Stability of the Mingechar Dam,  
W85-03578 1807 8A

**TOLKACHEV, L. A.**  
Hydraulicking at the Construction of the Zagosk Pumped-Storage Station,  
W85-00442 1801 8H

**TOLLAND, E. L. C.**  
Spatial and Temporal Trends in Heavy Metal Concentrations in Mussels from Northern Ireland Coastal Water,  
W85-01901 1804 5A

**TOLLEY, L. C.**  
Effects of CO<sub>2</sub> Enrichment and Water Stress on Growth of Liquidambar styraciflua and Pinus taeda Seedlings,  
W85-03319 1807 2I

**TOLMACHEV, L. V.**  
New Problems and Methods of Engineering-Geological Evaluation of Foundations of Large Dams,  
W85-00477 1801 8A

**TOMAR, R. P. S.**  
Contribution to the Wetland Flora of Sitapur District, Uttar Pradesh,  
W85-03830 1808 2H

**TOMAR, V. S.**  
Transpiration, Leaf Temperature and Water Potential of Rice and Barnyard Grass in Flooded Fields,  
W85-01070 1802 2D

**TOMASSO, J. R.**  
Confinement and Water Quality-Induced Stress in Largemouth Bass,  
W85-04680 1809 5C

Nitrite Toxicity to the Crayfish Procambarus clarkii,  
W85-05013 1810 5C

Toxicity of Nitrite to Channel Catfish (*Ictalurus punctatus*), Tilapia (*Tilapia aurea*), and Largemouth Bass (*Micropterus salmoides*): Evidence for a Nitrite Exclusion Mechanism,  
W85-03825 1808 5C

**TOMASZEWCZ, H.**  
Typhetum angustifoliae and Typhetum latifoliae as Indicators of Various Habitats,  
W85-04614 1809 2L

**TOMIYAMA, C.**  
Calcite Formation in Calcium Chloride Rich Water,  
W85-00185 1801 2K

**TOMKINS, B. A.**  
Determination of Munitions Components in Water by Resin Adsorption and High-Performance Liquid Chromatography-Electrochemical Detection,  
W85-03410 1807 5A

**TONLINSON, E. J.**  
Control Strategies for Bulking Sludge,  
W85-03640 1807 5D

**TOMNITSKY, V. A.**  
Phytoplankton of the Lower Dnieper (Fitoplankton Nizhnego Dnepra),  
W85-06375 1812 5C

**TOMPINKS, D.**  
Irrigation of Monterey Pine with Wastewater: Effect on Soil Chemistry and Groundwater Composition,  
W85-03855 1808 5D

**TOMSON, M. B.**  
Anaerobic Inhibition of Trace Organic Compound Removal During Rapid Infiltration of Wastewater,  
W85-03435 1807 5D

Fate of Trace Organics During Rapid Infiltration of Primary Wastewater at Fort Devens, Massachusetts,  
W85-01730 1804 5D

Microbial Removal of Wastewater Organic Compounds as a Function of Input Concentration in Soil Columns,  
W85-03434 1807 5D

**TONAPONG, C.**  
Heavy Metals and Polycyclic Hydrocarbon Compounds in Benthic Organisms of the Upper Gulf of Thailand,  
W85-01484 1803 5B

**TONE, S.**  
Separation of Aromatic Substances from Aqueous Solutions Using a Reverse Osmosis Technique with Thin, Dense Cellulose Acetate Membranes,  
W85-01313 1803 5D

**TONELLATO, P. J.**  
Salt and Water Transport in Unsaturated Soil for Non-Conservative Systems,  
W85-06686 1812 2G

**TONELLI, F. A.**  
Evaluation of Wastewater Disinfection Alternatives,  
W85-06963 1812 5D

**TONG, S. S. C.**  
National Survey of Elements and Other Constituents in Municipal Sewage Sludges,  
W85-02192 1805 5E

**TONK, I. P.**  
Short Term Effects of Aldrin and Swascof CD-38 on the Feeding and Respiratory Behaviors of *Clarias batrachus* and *Cirrhina mrigala*,  
W85-06269 1812 5C

**TONNA, G.**  
Dewfall and Evapotranspiration Determination During Day- and Nighttime on an Irrigated Lawn,  
W85-03849 1808 2D

**TONNARD, F.**  
Ozonation Schemes of Organo Phosphorus Pesticides Application in Drinking Water Treatment,  
W85-06214 1812 5F

**TONNESSEN, K. A.**  
Potential for Aquatic Ecosystems Acidification in the Sierra Nevada, California,  
W85-04207 1808 5C

**TONOMURA, T.**  
Reaction Kinetics of Sodium Bisulfite and Dissolved Oxygen in Seawater and Their Applications to Seawater Reverse Osmosis,  
W85-03973 1808 3A

**TOPCUOGLU, S.**  
Factors Affecting the Biokinetics of Technetium (95mTc) in Marine Macroalgae,  
W85-01310 1803 5B

**TOPP, G. C.**  
Measurement of Soil Water Content Using a Portable TDR Hand Probe,  
W85-02801 1806 2G

Measurement of Soil Water Content Using Time-Domain Reflectrometry (TDR): A Field Evaluation,  
W85-05180 1810 2G

**TOPPIN, K. W.**  
Water Resources Data, New Hampshire and Vermont, Water Year 1982,  
W85-01933 1804 2E

**TOPPING, J. J.**  
Organochlorine Residues in Shellfish from Maryland Waters, 1976-1980,  
W85-04437 1809 5B

Trace Metal Residues in Shellfish from Maryland Waters, 1976-1980,  
W85-04436 1809 5B

**TOPPING, R. E.**  
Computer-Assisted Water System Analysis and Design for Charleston, S.C.,  
W85-01907 1804 5F

**TORAN, L.**  
Isotopes in Ground-Water Investigations,  
W85-00351 1801 2F

**TORANZOS, G. A.**  
Simple Field Method for Concentration of Viruses from Large Volumes of Water,  
W85-02603 1805 7B

**TORGERSEN, T.**  
137Cs Diffusion in the Highly Organic Sediment of Hidden Lake, Fraser Island, Queensland,  
W85-03497 1807 2H

Helium Accumulation in Groundwater, I: An Evaluation of Sources and the Continental Flux of Crustal 4He in the Great Artesian Basin, Australia,  
W85-07035 1812 2F

Wind Effects on Water and Salt Loss in Playa Lakes,  
W85-03087 1806 2H

**TORII, T.**  
Vertical Distribution of Organic Constituents in an Antarctic Lake: Lake Vanda,  
W85-00418 1801 2H

**TORRES, P.**  
Short-term Cadmium Effects on Gill Tissue Metabolism,  
W85-04381 1808 5C

**TORREY, V. H.**  
Analysis of Field Compaction Data, DeGray Dam, Caddo River, Arkansas,  
W85-06913 1812 8D

**TORSI, G.**  
Electrochemical Preconcentration Combined with Atomic Absorption Spectrometry for the Determination of Heavy Metals in Water Samples,  
W85-02307 1805 5A

**TORSTENSSON, B.-A.**  
New System for Ground Water Monitoring,  
W85-03185 1806 7B

**TORT, L.**  
Cardio-Respiratory Responses of Rainbow Trout During Recovery from Zinc Treatment,  
W85-05853 1811 5C

Short-term Cadmium Effects on Gill Tissue Metabolism,  
W85-04381 1808 5C

**TOSTE, A. P.**  
Role of Organics in the Subsurface Migration of Radionuclides in Groundwater,  
W85-06775 1812 5B

## AUTHOR INDEX

**TOTH, J.**

**TOTH, J.**  
Two-Phase Anaerobic Fermentation of Liquid Swine Waste to Methane, W85-04659 1809 5D

**TOTH, L.**  
Microelement Content of Some Submerged and Floating Aquatic Plants, W85-04678 1809 2H

Nitrogen Fixation in the Sediment of Shallow Lake Balaton, a Reservoir and Fishponds, W85-02903 1806 2H

**TOTH, L. A.**  
Fish Communities of Midwestern Rivers: A History of Degradation, W85-06565 1812 5C

**TOUMA, J.**  
Flux and Water Content Relation at the Soil Surface, W85-06538 1812 2G

**TOURASSE, P.**  
Dynamics of Intense Rainy Spells over the South-East of the Massif Central - Meteorological Aspects and Hydrological Applications (Dynamique des Episodes Pluvieux Intenses sur le Sud-Est du Massif Central; Aspects Meteorologiques et Applications Hydrologiques), W85-00391 1801 2B

**TOURBIER, J. T.**  
Stormwater Management Alternatives - A Computer-Based Program for the Selection of Techniques to Mitigate the Impact of Urban Stormwater, W85-06328 1812 2E

**TOURENQ, J. N.**  
Dynamics of Contribution of Nitrogen and Phosphorus to the River Aveyron (Dynamique des apports en nutriments azotes et phosphores a la riviere Aveyron), W85-00092 1801 5C

**TOURIELLOTTE, G. H.**  
Macrofauna Communities of the Lower Chesapeake Bay. II. Lynnhaven Roads, Lynnhaven Bay, Broad Bay and Linkhorn Bay. Benthic Studies of the Lower Chesapeake Bay 5, W85-02902 1806 2L

**TOUSIGNANT, H. G.**  
Epidemiology Study of the Use of Asbestos-Cement Pipe for the Distribution of Drinking Water in Escambia County, Florida, W85-02709 1806 5C

**TOUSSAINT, B.**  
Main Results of a Project for Artificial Ground-Water Recharge from Secondary Treated Sewage in the Municipal Forest of the City of Langen (Lower Main Region) (Die wichtigsten Ergebnisse eines Projektes zur künstlichen Grundwasser-anreicherung mit weitergehend behandeltem Abwasser im Langener Stadtwald (Untermainregion)), W85-04809 1809 5D

**TOVAR, M. S.**  
Sallente Dam Spillway, W85-05820 1810 8A

**TOWNSEND, M. A.**  
Impact of Sewerage Irrigation on the Chemistry of Ground and Surface Waters, W85-05378 1810 5E

**TOYAMA, E.**  
Limnological Studies on Fukuji Reservoir at Higashi-son, Okinawa Island; Part 1. Physico-chemical Factors and Plankton, W85-00536 1802 2H

**TRAAN, T. S.**  
Influence of Current Velocity on Periphyton Distribution and Succession in a Norwegian Soft Water River, W85-05677 1810 2H

**TRACY, P. W.**  
Fluorite Precipitation in a Calcareous Soil Irrigated with High Fluoride Water, W85-02873 1806 2G

**TRAILLE, L. A.**  
Simple Methods to Evaluate Relative Effects of Longitudinal Encroachments, W85-04333 1808 8B

**TRAMA, F. B.**  
Response of Algal Populations to Changes in Stream Water Quality, W85-01797 1804 5C

**TRAMER, E. J.**  
Oil Spill Focuses Attention on the Problems of a Man-Made Recreational Lake, W85-01650 1804 5B

**TRAMONTANO, J. M.**  
Wet Deposition of Trace Metals to the Western Atlantic Ocean at the Mid-Atlantic Coast and on Bermuda, W85-04504 1809 5B

**TRAMONTANO, J. M. JR.**  
Nutrient and Trace Metal Geochemistry of a Dredge Plume, W85-00289 1801 5B

**TRAN, T. V.**  
Advanced Membrane Filtration Process Treats Industrial Wastewater Efficiently, W85-05770 1810 5D

**TRANQUILLI, J. A.**  
Age and Growth of Largemouth Bass in a Thermally Altered Reservoir, as Determined from Otoliths, W85-02376 1805 5C

**TRANTER, M.**  
Black Acidic Snow in the Remote Scottish Highlands, W85-03127 1806 5B

**TRAPANESE, S. M.**  
Systems Approach for Agricultural Land Management and Water Quality Control, W85-03390 1807 2J

**TRAPASSO, R.**  
Optimal Design of Fluidized Bed Bioreactors, W85-07043 1812 5D

**TRASK, C. B.**  
Differential Transport of Fall-Equivalent Sand Grains, Lake Ontario, New York, W85-06422 1812 2J

**TRavers, M.**  
Transparency and Seston Weight of the Etang de Berre (Mediterranean Coast of France); Relations between the Tributaries and the Marine Environment (La Transparence et la Charge Sestonique de l'Etang de Berre (cote Méditerranéenne française); Relations avec les affluents et le milieu marin voisin), W85-00993 1802 2L

**TRAVI, Y.**  
Origin of High Fluorine Contents in Groundwaters from Paleocene Aquifer of Mbour Area (Senegal). Role of the Magnesium Ion (Origine des fortes teneurs en fluor des eaux souterraines de l'aquifère paleocène de la région de Mbour (Senegal). Role de l'ion magnésium), W85-00947 1802 2H

**TREBERN, B.**  
Effect of High Chloride Ion Concentrations on the Quantitative Spectrophotometric Determination of Tribromamine in Aqueous Media (Influence des Ions Chlorure sur la Determination Quantitative de la Tribromamine en Milieu Aqueux par Spectrophotometrie d'Absorption Electronique), W85-03547 1807 5A

**TREGOBCHUK, V. M.**

Fundamentals Concerning Ecological-and-Economical Estimation of the Water and Water-Adjacent Ecosystems Functioning Changes Under the Influence of Anthropogenic Factors (Osnovnye Polozheniya Ekologo-Ekonomicheskoi Otseki Izmenii Funktsionirovaniya Vodnykh Okolovodnykh Ekosistem pod Vozdeystviem Antropogennykh Faktorov), W85-06378 1812 6G

**TREGUER, P.**

Studies on the Phytoplankton in the Bay of Brest (Western Europe). Seasonal Variations in Composition, Biomass and Production in Relation to Hydrological and Chemical Features (1981 and 1982), W85-03840 1808 2L

**TREHY, M. L.**

Determination of Aldicarb, Aldicarb Oxime, and Aldicarb Nitrile in Water by Gas Chromatography/Mass Spectrometry, W85-01078 1802 5A

**TRELA, K.**

Stream Ecosystems in Mountain Grassland (West Carpathians); 5. Bacteria, W85-02516 1805 5B

**TREMBLAY, M.**

Relative Resistance to Chlorine of Poliovirus and Coxsackievirus Isolates from Environmental Sources and Drinking Water, W85-06147 1811 5F

**TRENT, R. E.**

Overview of Factors Affecting River Stability, W85-06108 1811 2J

**TREVISOLI, Y.**

Areal Reduction Factors on Short Time and Space Intervals, W85-01690 1804 2B

**TREVORS, J. T.**

Effect of Methylene Chloride on Respiration and Electron Transport System (ETS) Activity in Freshwater Sediment, W85-04475 1809 5C

**TRIAL, J. G.**

Calibrating Effects of Acidity on Atlantic Salmon for Use in Habitat Suitability Models, W85-00068 1801 5C

**TRIMBEE, A. M.**

Phytoplankton Population Dynamics of a Small Reservoir: Effect of Intermittent Mixing on Phytoplankton Succession and the Growth of Blue-green Algae, W85-01916 1804 2H

**TRIPET, I.**

Problem of Acid Precipitation in Switzerland (Le Probleme des Precipitations Acides en Suisse), W85-01266 1803 5C

**TRIPPLETT, G. B. JR.**

Influence of Long-Term Tillage and Crop Rotation on Water Erosion, W85-00755 1802 5G

**TRIPP, M. R.**

Histopathology of Mercenaria mercenaria as an Indicator of Pollutant Stress, W85-05899 1811 5C

**TRIPP, S. C.**

Effect of Metal-Rich Sewage Sludge Application on the Bacterial Communities of Grasslands, W85-05047 1810 5C

**TRISAL, C. L.**

Sediment Composition, Mud-water Interchanges and the Role of Macrophytes in Dal Lake, Kashmir, W85-04904 1809 2H

## AUTHOR INDEX

TUNBRIDGE, I. P.

**TRISKA, F. J.**  
Denitrification Associated with Stream Periphyton: Chamber Estimates from Undisrupted Communities,  
W85-03852 1808 2H

**ROLE OF WOOD DEBRIS IN MODIFYING CHANNEL GEOMORPHOLOGY AND RIPARIAN AREAS OF A LARGE LOWLAND RIVER UNDER PRISTINE CONDITIONS: A HISTORICAL CASE STUDY,**  
W85-05668 1810 2J

**TRIVEDY, R. K.**  
Influence of Water Hyacinth Cover on the Physico-Chemical Characteristics of Water and Phytoplankton Composition in a Reservoir near Jaipur (India),  
W85-04913 1809 5C

**TROITSKII, A. P.**  
Calculation of the Effect of Seismic Loads on Earth Dams by the Linear Spectral Method,  
W85-00429 1801 8D

**SEISMIC STABILITY OF THE MINGECHAUR DAM,**  
W85-03578 1807 8A

**TROLLOPE, D. R.**  
Indicator Bacteria in Freshwater and Marine Molluscs,  
W85-00416 1801 5A

**SEWAGE-DERIVED BACTERIA MONITORED IN A MARINE WATER COLUMN BY MEANS OF CAPTIVE MUSSELS,**  
W85-04868 1809 5A

**TKOMBLEY, T. J.**  
Downstream Effects of Reservoir Releases to the Potomac River from Luke, Maryland, to Washington, D.C.,  
W85-00836 1802 4A

**TROTT, G. D.**  
Case Study of Design Procedures for a Land Treatment of Wastewater System, Dalton, Georgia,  
W85-05393 1810 5D

**TROUDE, J.-P.**  
Sedimentation Cycle of a Freshwater Tidal Flat in the St. Lawrence Estuary,  
W85-02396 1805 2L

**TROUSSELLIER, M.**  
Dynamics of Pollution-Indicator and Heterotrophic Bacteria in Sewage Treatment Lagoons,  
W85-02935 1806 5D

**TRUDEL, M.**  
Relative Resistance to Chlorine of Poliovirus and Coxsackievirus Isolates from Environmental Sources and Drinking Water,  
W85-06147 1811 5F

**TRUDGILL, S. T.**  
Hydrochemical Budgets for a Magnesian Limestone Catchment in Lowland England,  
W85-03083 1806 2K

**TRUESDALE, V. W.**  
Dissolved Iodine Species in a British Freshwater System,  
W85-02788 1806 2H

**TRUONG, K. N.**  
Stripping of Organic Chemicals in Biological Treatment Processes,  
W85-02767 1806 5D

**TSAI, C.**  
Intraspecific Variation in Copper Susceptibility of the Bluegill Sunfish,  
W85-02194 1805 5C

**TSAI, K.-C.**  
Biotoxicity of Coal Liquefaction Waste in the Activated Sludge Process,  
W85-05437 1810 5D

**Steam Stripping of Coal Liquefaction Waste for Ammonia and Sulfide Removal,**  
W85-05268 1810 5D

**TSAI, S.-C.**  
Elution of Enteric Viruses from Mississippi Estuarine Sediments with Lecithin-Supplemented Eluents,  
W85-02934 1806 5A

**TSAKIRIS, G.**  
Optimal Intraseasonal Irrigation Water Distribution,  
W85-04166 1808 3F

**TSAKIRIS, G. P.**  
Nomographic Estimation of Performance Parameters in Sprinkler Irrigation,  
W85-03478 1807 3F

**TSANG, G.**  
Modelling Criteria for Bubble Plumes - A Theoretical Approach,  
W85-01715 1804 8B

**TSANG, Y. W.**  
Effect of Tortuosity on Fluid Flow Through a Single Fracture,  
W85-02662 1805 2F

**TSAY, T.-K.**  
Refraction-Diffraction Model for Weakly Nonlinear Water Waves,  
W85-00715 1802 8B

**TSCHAPPLINSKI, T. J.**  
Stomatal Control of Water Use Efficiency in Poplar Clones and Hybrids,  
W85-01646 1804 2I

**TSCHUE-SCHLUTER, M.**  
Toxicity of Simple and Complexed Cyanide to Aquatic Organisms (Zur Toxizität einfacher und Komplexer Cyanide gegenüber Wasserorganismen),  
W85-06660 1812 5C

**TSCHIRHART, R. E.**  
Fracture Trace Analysis to Increase the Probability of Locating Groundwater for Murray County, Georgia,  
W85-06313 1812 2F

**TSIEITLIN, B. S.**  
Method of Determining the Maximum Flood Inflow to the Middle Enisei Hydroelectric Station,  
W85-00479 1801 4A

**TSIGEL'NAYA, I. D.**  
River Runoff Maps of Some High-Mountain Regions of the World,  
W85-04151 1808 2E

**TSUBOTA, H.**  
Application of Reversed-Phase Liquid Chromatography to Dissolved Organic Matter in Estuarine Seawater,  
W85-07065 1812 5A

**Behavior of Organically-Bound Iron in Seawater of Estuaries,**  
W85-01913 1804 2L

**TSUCHINAGA, T.**  
Metals and Synthetic Organic Compounds in Plankton from the Estuary and Harbor Area in Osaka City,  
W85-04607 1809 5A

**TSUI, P.-S.**  
Quantity and Quality Variations in Subsurface Drainage,  
W85-01188 1803 2G

**TSUJI, H.**  
Studies on Chemical Species Dissolved in Groundwaters from the Neogene Strata. A

**Comparison between Shallow and Deep Groundwaters (in Japanese),**  
W85-00537 1802 2F

**Studies on Chemical Species Dissolved in Shallow Groundwaters of Arima Rhyolite Strata,**  
W85-02251 1805 2K

**TSUJI, K.**  
Biodegradation of Linear Alkylbenzene Sulfonates and Soap in River Water (in Japanese),  
W85-03508 1807 5B

**Existence of Anionic Surfactants in River (in Japanese),**  
W85-00191 1801 5A

**TSUMURA, K.**  
Suppression of Actinomycete Scum Production - A Case Study at Senboku Wastewater Treatment Plant, Japan,  
W85-03641 1807 5D

**TSVETKOVA, R. L.**  
Biological State of Underground Waters in the Industrial Zone of the Eastern Part of the Sofia Plain (Biologichio S'toyanie na Podzemnite vodi v Industrialnata Zona na Uztochnoto Zofizko Pole),  
W85-03103 1806 5B

**TUBB, R. A.**  
Impact of Small-Scale Dams on Fishes of the Willamette River, Oregon and an Evaluation of Fish Habitat Models,  
W85-06321 1812 6G

**TUBB, R. H.**  
Mitigating Effects of Artificial Riffles and Pools on the Fauna of a Channelized Warmwater Stream,  
W85-00203 1801 6G

**TUCCI, C. E. M.**  
Simulation of the Urbanization Effect in Flow,  
W85-01134 1803 2E

**TUCKE, F.**  
Optimization of the Activated Sludge Process Through Minimizing the Volume of Activated Sludge and Final Clarification Tanks (Optimierung des Belebungsverfahrens durch Minimierung des Volumens von Belebungs- und Nachklärbecken),  
W85-06656 1812 5D

**TUCKER, J. W. JR.**  
Acute Toxicity of EDB and Aldicarb to Young of Two Estuarine Fish Species,  
W85-01455 1803 5C

**TUCKER, W. J.**  
Evaluation of a Community-Based Index Using Benthic Indicator-Organisms for Classifying Stream Quality,  
W85-07046 1812 5A

**TUINSTRA, L. G. M. TH.**  
Contribution of Leaching of Diazinon, Parathion, Tetrachorvinphos and Triazophos from Glasshouse Soils to Their Concentrations in Water Courses,  
W85-01961 1804 5B

**TULLER, S.**  
Nonpoint Sources of Water Pollution,  
W85-05940 1811 5B

**TUMANOV, S. A.**  
Forecast and Provision of Cavitation-Erosion Safety in High-Head Spillways,  
W85-01142 1803 8A

**TUNBRIDGE, I. P.**  
Facies Model for a Sandy Ephemeral Stream and Clay Playa Complex: The Middle Devonian Trentishoe Formation of North Devon, U.K.,  
W85-03215 1806 2J

## AUTHOR INDEX

**TUNBRIDGE, J. P.**

**TUNBRIDGE, J. P.**  
Alluvial Fan Sedimentation of the Horseshoe Park Flood, Colorado, U.S.A., July 15th, 1982, W85-01052 1802 2J

**TUNDISI, J. G.**  
Effects of Phosphorus and Nitrogen Enrichment on the Phytoplankton in a Tropical Reservoir (Lobo Reservoir, Brazil), W85-03694 1807 2H

Mixing Patterns in Amazon Lakes, W85-01004 1802 2H

Responses of the Phytoplankton Community of a Tropical Reservoir (Sao Paulo, Brazil) to the Enrichment with Nitrate, Phosphate and EDTA, W85-04908 1809 2H

**TUNDISI, T. M.**  
Mixing Patterns in Amazon Lakes, W85-01004 1802 2H

**TUNG, Y.-K.**  
Channel Scouring Potential Using Logistic Analysis, W85-05779 1810 2E

**TUNGER, H.**  
Results and Experience of the Greiz Water-Supply District in the Field of Rational Water Use (Ergebnisse und Erfahrungen des Versorgungsbereiches Greiz bei der rationellen Wasserwendung), W85-01880 1804 3D

**TUNICK, M. H.**  
Anaerobic Treatment of Tannery Waste, W85-05554 1810 5D

**TUNNICLIFF, B.**  
Anaerobic Incubation of Membrane Filter Cultures for Improved Detection of Fecal Coliforms from Recreational Waters, W85-02595 1805 5A

Analysis of Sample Preparation Procedures for Enumerating Fecal Coliforms in Coarse Southwestern U.S. Bottom Sediments by the Most-Probable-Number Method, W85-02942 1806 5A

Recreational Water Quality Analyses of the Colorado River Corridor in Grand Canyon, W85-03430 1807 5B

**TURCOTTE, J.**  
Alum Sludge: A Sampling Method for the Radioactivity in Waters (Les boues d'alun: une Methode d'echantillonage des eaux pour l'etude des Radionucleides), W85-04017 1808 5A

**TURK, J. T.**  
Evaluation of Trends in the Acidity of Precipitation and the Related Acidification of Surface Water in North America, W85-00605 1802 5B

**TURNBULL, I. M.**  
Modern Sedimentation at Falls Dam, Upper Manuherikia River, Central Otago, New Zealand, W85-03488 1807 2J

**TURNER, A. H.**  
Biodegradability of Two Primary Alcohol Ethoxylate Nonionic Surfactants Under Practical Conditions, and the Toxicity of the Biodegradation Products to Rainbow Trout, W85-04487 1809 5D

**TURNER, A. K.**  
Hydrologic Behaviour of a Small Forested Catchment, W85-06052 1811 2A

Shallow Flow of Water Through Non-Submerged Vegetation, W85-06684 1812 2E

**TURNER, C. D.**  
Dissolved Solids Hazards in the South Platte Basin, Vol. II: Salt Balance Analysis, W85-00063 1801 5B

**TURNER, D.**  
Checklist of the Species of Fishes in Lake Maurepas, Louisiana, W85-06488 1812 2H

**TURNER, D. R.**  
Potentiometric Stripping Analysis for Manganese(II) in Natural Waters, W85-02798 1806 5A

Statistical Analysis of Estuarine Profiles: II Application to Arsenic in the Tamar Estuary (S.W. England), W85-01914 1804 5B

**TURNER, E.**  
Industrial Development Without Environmental Pollution: Role of Environmental Impact Assessment (EIA), W85-07111 1812 6G

**TURNER, N. C.**  
Diurnal Changes in the Water Relations and Transpiration of a Soybean Crop Simulated During the Development of Water Deficits, W85-05932 1811 2I

Responses of Stomata and Leaf Gas Exchange to Vapour Pressure Deficits and Soil Water Content, I. Species Comparisons at High Soil Water Contents, W85-02561 1805 2D

**TURNER, R. E.**  
Dependence of Fishery Species on Salt Marshes: The Role of Food and Refuge, W85-05706 1810 2L

Impact and Mitigation of Man-Made Canals in Coastal Louisiana, W85-00569 1802 6G

**TURSONOV, A. A.**  
Role of Large-Scale Turbulence and Problems of Stability of Earth Canals, W85-01147 1803 8B

**TURTON, D. J.**  
Stage-Activated Triggering Device for Automatic Pumping Samplers, W85-01380 1803 7B

**TUTHILL, R. W.**  
Health Effects Among Newborns After Prenatal Exposure to ClO<sub>2</sub>-Disinfected Drinking Water, W85-01203 1803 5F

**TUTSCH, E.**  
Data Bank for Waterworks and Facilities - Goals and Problem-solving Concept (Datenbank Wasserwerke und Anlagen - Aufgaben und Lösungskonzeption), W85-01969 1804 5F

**TUURALA, H.**  
Gill Damage as a Determinant of Residual Oxygen Concentration in the Sealed Jar Test, W85-05015 1810 5A

**TUZOVA, T. V.**  
Use of Uranium-Series Isotopes for Studying Thermal Waters of the Frunze Region, W85-05150 1810 2F

**TWINCH, A. J.**  
Phosphate Exchange Between Littoral Sediments and Overlying Water in an Oligotrophic North-Temperate Lake, W85-03599 1807 2H

Simple Gravity Corer and Continuous-Flow Adaptor for Use in Sediment/Water Exchange Studies, W85-04300 1808 7B

Vertical Stratification in Sediments from a Young Oligotrophic South African Impoundment: Implications in Phosphorus Cycling, W85-02086 1804 2H

**TYAGI, A.**  
Pollution and Saprobic Status of Eastern Kalinadi, W85-00798 1802 5C

**TYAGI, A. K.**  
Unified Streamflow Routing by Finite Elements, W85-03779 1808 2E

**TYAGI, N. K.**  
Effect of Land Surface Uniformity on Some Economic Parameters of Irrigation in Sodic Soils Under Reclamation, W85-05917 1811 3F

Water Use Planning for Alkali Soils under Reclamation, W85-01511 1803 3F

**TYE, C. T.**  
High-Performance Liquid Chromatography with Hydride Generation/Atomic Absorption Spectrometry for the Determination of Arsenic Species with Application to Some Water Samples, W85-07162 1812 5A

**TYE, D. C.**  
Treatment of Ferruginous Groundwaters for River Augmentation in the Waller's Haven, East Sussex, W85-01522 1803 5F

**TYERMAN, S. D.**  
Effect of Different Growing Conditions on Water Relations Parameters of Leaf Epidermal Cells of *Tradescantia virginiana* L., W85-00208 1801 2I

**TYLER, E. J.**  
Using Soil Physical Properties to Estimate Hydraulic Conductivity, W85-04345 1808 2G

**TYLER, P.**  
Tropical Australia, a Dynamic Limnological Environment, W85-05655 1810 2H

**TYLER, P. A.**  
Anomalous Stratification Behaviour of Lake Gordon, Headwater Reservoir of the Lower Gordon River, Tasmania, W85-00779 1802 2H

Endangered Lakes of Scientific and Cultural Value in the World Heritage Area of Southwest Tasmania, W85-03761 1807 6G

Family of Pneumatically-Operated Thin Layer Samplers for Replicate Sampling of Heterogeneous Water Columns, W85-06787 1812 7B

Sulphide Pool and Lake Morrison, Meromictic Lakes of South-west Tasmania, W85-00871 1802 2H

Water Chemistry of the River Kwai, Thailand, W85-00414 1801 2K

**TYLMANN, J.**  
Lamellar Flowpack Clarifiers for Sedimentation (Schragklarer fur die Sedimentation), W85-01361 1803 5D

**TZENG, C. H.**  
Fermentation Process for Dilute Food and Dairy Wastes, W85-05257 1810 5D

## AUTHOR INDEX

**US'YAROV, O. G.**

**TZIMPOULOS, C.**  
Analytical Treatment of Unsteady Horizontal Seepage, W85-03782 1808 2F

**TZOU, L.**  
Recovery and Application of Solids from Crab-Processing Wastewater, W85-05567 1810 5D

**UBERTINI, L.**  
Rainfall-Runoff-Sediment Yield Relation by Stochastic Modelling, W85-01138 1803 2J

**UCHRIN, C. G.**  
Modeling Transport Processes and Differential Accumulation of Persistent Toxic Organic Substances in Groundwater Systems, W85-00262 1801 5B

Phosphorus Management LP Model Case Study, W85-02977 1806 5G

Reversible and Resistant Components of Hexachlorocyclohexane (Lindane) Sorption to New Jersey Coastal Plain Aquifer Solids, W85-06600 1812 5B

Ultrafiltration Processes for the Characterization and Separation of Landfill Leachates, W85-04985 1810 5A

**UCHTMANN, D. L.**  
Agricultural Nonpoint Pollution Control: An Assessment, W85-05942 1811 5G

**UDLUFT, P.**  
Studies on the Drainage Behavior of Quarternary Gravel and Sand Mixtures (Untersuchungen Zum Entwässerungsverhalten Von Quartären Kies- und Sandgemischen), W85-01055 1802 2G

**UDOIMUK, A. B.**  
Comparative Studies of NO<sub>3</sub>- Concentrations in Some Tropical Rains, W85-04506 1809 5B

**UEBLER, R. L.**  
Effect of Loading Rate and Soil Amendments on Inorganic Nitrogen and Phosphorus Leached from a Wastewater Soil Absorption System, W85-01295 1803 5D

**UECKERT, D. N.**  
Soil Water and Temperature Response to Prescribed Burning, W85-04071 1808 2G

**UEDA, S.**  
Model System of Bulking and Flocculation in Mixed Culture of *Sphaerotilus* sp. and *Pseudomonas* sp. for Dissolved Oxygen Deficiency and High Loading, W85-07115 1812 5D

**UEDA, T.**  
Effects of Bottom Dredging on Some Environmental Factors and Benthic Animals in the South Basin of Lake Biwa (in Japanese), W85-00528 1802 2H

**UGAPO, T.**  
Effect of Organic Colloids on ASV Signals of Cd, Pb and Cu, W85-06572 1812 5A

**UHLER, A. D.**  
Dechlorination and Trihalomethane Yields, W85-06527 1812 5F

Reaction of Dissolved Chlorine with Surficial Sediment: Oxidant Demand and Production of Trihalomethanes, W85-06149 1811 5B

**UHLMANN, D.**  
Ensuring a High Level of Effectiveness and Intensity of Agricultural and Water-Manage-

ment Production in Drinking-Water Catchment Areas (Sicherung hoher Effektivität und Intensität der landwirtschaftlichen und wasserwirtschaftlichen Produktion in Trinkwasser-Einzugsgebieten), W85-01883 1804 4D

Scaling of Microcosms and the Dimensional Analysis of Lakes, W85-06882 1812 2H

Upper Limit of Phytoplankton Production in Natural Waters (Über die obere Grenze der Phytoplanktonproduktion in natürlichen Gewässern), W85-03611 1807 2H

**UJIIE, H.**  
Sediments of Haneji Inlet and Its Environs, Okinawa, Subtropical Japan, W85-02880 1806 2J

**ULIANA, F.**  
Groundwater Response under an Electroneuclear Plant to a River Flood Wave Analyzed by a Nonlinear Finite Element Model, W85-02157 1804 2F

**ULLRICH, C. R.**  
Streambank Stability, W85-07082 1812 2J

**ULLRICH, J.**  
Borehole Measurements and its Application, Shown by an Example of Two Artesian Wells (Bohrlochmessmethoden und ihre Einsatzmöglichkeiten, Gezeigt am Beispiel Zweier Artesischer Brunnen), W85-03445 1807 2F

**ULLRICH, B.**  
Chemical State of Forest Springs in the Kaufunger Wald (Chemischer Zustand von Quellen im Kaufunger Wald), W85-06444 1812 2H

**ULLRICH, K. E.**  
Effects of Nitrate, Phosphate and Potassium Fertilization on Growth and Nutrient Uptake Patterns of *Phragmites australis* (Cav.) Trin. ex Steudel, W85-05609 1810 2H

**ULSAKER, L. G.**  
Relating Rainfall Erosivity Factors to Soil Loss in Kenya, W85-02322 1805 2J

**ULYASHINSKII, V. A.**  
Seepage in the Foundation of the Krasnoyarsk Dam, W85-00488 1801 8A

**UMPHRES, M.**  
Converting from Chlorine to Chloramines: A Case Study, W85-05474 1810 5F

**UNAL, A.**  
Evolving Data Processing Environment For Computational Hydraulics Systems, W85-01709 1804 7C

**UNCLES, R. J.**  
Observed Fluxes of Water, Salt and Suspended Sediment in a Partly Mixed Estuary, W85-06852 1812 2L

**UNDERWOOD, J. E.**  
Seismic and Resistivity Investigations Near Norway, Michigan, W85-03179 1806 2F

**UNGERMAN, T. M.**  
Changes in Chemical Composition of Precipitation as it Falls (Ob Izmenenii Khimicheskogo Sostava Atmosfernykh Osadkov V Protsesse Ikh Vypadeniya), W85-06808 1812 5B

**UNITES, D. F.**  
Field Investigation and Remedial Action at a Site Contaminated with Coal Tars, W85-05377 1810 5E

**UNNI, K. S.**  
Primary Production and Diurnal Variation in a Tropical Fish Pond, W85-04852 1809 5C

**UNNY, T. E.**  
Dissolved Oxygen Concentrations in Lake Erie (U.S.A.-Canada); 1. Study of Spatial and Temporal Variability Using Cluster and Regression Analysis, W85-01609 1803 2H

**UNSWORTH, M. H.**  
Evaporation from Forests in Cloud Enhances the Effects of Acid Deposition, W85-03535 1807 5B

**UNTRU, E.**  
Some Problems About the Soil Erosion in the Vrancea Subcarpathians (Quelques Problèmes sur L'Erosion des Sols dans les Subcarpates de Vrancea), W85-06420 1812 2J

**UNZ, R. F.**  
Concurrent Denitrification and Oxygen Uptake in Microbial Films, W85-06226 1812 2K

**UPCHURCH, D. R.**  
Microclimate of a Rainfall Shelter, W85-06185 1812 2I

**UPCHURCH, S. B.**  
Identification of Recharge Areas Using Geochemical Factor Analysis, W85-00345 1801 2F

**URANO, K.**  
Adsorption of Surfactants on Sediments, W85-01960 1804 5A

Recovery of Acid from Wastewater by Electrodialysis, W85-03977 1808 5D

Recovery of Acid from Wastewater by Electrodialysis, W85-07095 1812 5D

**URBAN, C.**  
Two-Dimensional HN-Models of Flood Discharge in Rivers with Flood Plains, (Zweidimensionale HN-Modelle des Hochwasserabflusses in Flüssen mit Vorländern), W85-03449 1807 2E

**URBAN, J. B.**  
Effect of Agricultural Land Use on Ground-Water Quality in a Small Pennsylvania Watershed, W85-04642 1809 5B

**URBAN, J. E.**  
Response of Bacteria Isolated from a Pristine Prairie Stream to Concentration and Source of Soluble Organic Carbon, W85-04266 1808 2K

**URCIKAN, P.**  
Synthetic Design Storm and its Relation to Intensity-Duration Frequency Curves, W85-01679 1804 2B

**URIE, D. H.**  
Water Quality Effects and Growth Benefits of Entrenching Sewage Sludge in Sandy Forest Soils, W85-05384 1810 5E

**US'YAROV, O. G.**  
Stiromal, a New Effective Soil Structuring and Hydrophobizing Agent, W85-06753 1812 3B

## AUTHOR INDEX

**USDOWSKI, E.**

**VAGA, R. M.**  
Kinetic Factors of CaCO<sub>3</sub>-Precipitation and the Partitioning of 12C and 13C. Studies at the Waterfalls of Guterstein and Urach (Schwabische Alb) (Kinetische Faktoren der CaCO<sub>3</sub>-Abscheidung und der Fraktionierung von 12C und 13C. Untersuchungen an den Wasserfällen von Guterstein und Urach (Schwabische Alb)), W85-01662 1804 1B

**VAIDYANATHAN, S.**  
Effect of Cupric Chloride on Oxidative Metabolism in the Freshwater Teleost, Tilapia mossambica, W85-00271 1801 5C

**VAKHULA, I. A.**  
Pilot Plant Treatment of Swine Wastes by the Deep Shaft Method, W85-05411 1810 5D

**VAL KLUIMP, J.**  
Dispersion Simulation in Two-Dimensional Tidal Flow, W85-01558 1803 5B

**VALCARCEL, M.**  
Method for Optimal Observation Network Design for Groundwater Management, W85-02463 1805 4B

**VALLENTA, P.**  
Cellular Phosphorus Concentration as a Criterion for Trophic Status in Rapidly Flushed Lakes, W85-04846 1809 2H

**VALDES, J. B.**  
Sulfur Distribution in Lake Sediment Profiles as an Index of Historical Depositional Patterns, W85-05865 1811 5B

**VALLOM, J. K.**  
Design and Construction of the Agus IV Power Cavern, Part Two: Design and Construction, W85-01552 1803 8A

**VALLI, V. E.**  
Flow over Side Weirs in Circular Channels, W85-04401 1808 8B

**VALVOLA, P.**  
Oligochaet Worms Complex of the Blagoevgradska Bistritsa River as Affected by Some Factors of the Environment (Dinamika na Oligokhetniyu Kompleks v Reka Blagoevgradska Bistritsa v Zavisimosti ot Nyakoi Faktori na Sredstvata), W85-03104 1806 5C

**VALLUNAT, J. L.**  
Some Principles of the Structure and Organization of the Hydrobiological Monitoring of Rivers (O Nekotoryx Printsipax Strukturny i Organizatsii Gidrobiologicheskogo Monitoringa Rek), W85-03102 1806 7A

**VALLUM, J. K.**  
Changing Boundary Conditions for the Management of Hydrogenerators; Influence on Maintenance Strategies (Geanderte Randbedingungen fur Betrieb von Wasserkraftgeneratoren und ihr Einfluss auf Instandhaltungsstrategien), W85-01257 1803 8C

**VALLUNAT, J. L.**  
Dynamics of Mercury and Cadmium Uptake into Different Organs of Anodonta cygnea L., W85-02910 1806 5C

**VAN ANDERSON, P.**  
Cost Comparison of Aerobic and Anaerobic Wastewater Treatment Systems, W85-07018 1812 5D

**VAN ANDEL, O. M.**  
Isotachophoretic Determination of Anionic and Cationic Species in Well and Surface Waters, W85-05910 1811 5A

**VAN BEEK, C. G. E. M.**  
Trophic Ecology of Fish Rearing Ponds, W85-01833 1804 2H

**VAN BEEK, J. L.**  
Removal of Phenol Using Water Hyacinth in a Continuous Unit, W85-05449 1810 5D

**VAN BEECK, J. L.**  
Water Protection Problems in Estonia: Hygienic Aspects, W85-04113 1808 5G

**VAN BUGGENHOUT, E.**  
Architecture of Foreign Hydroelectric Stations, W85-00500 1801 6B

**VAN CLEUVENBERGEN, R. J. A.**  
Tritium Content in USSR Surface Waters in 1979-1980, W85-04108 1808 2K

**VAN COILLIE, R.**  
Biogeochemical Cycling in an Organic-Rich Coastal Marine Basin; 4. An Organic Carbon Budget for Sediments Dominated by Sulfate Reduction and Methanogenesis, W85-03211 1806 2L

**VAN CRAENENBROECK, W.**  
Spectrophotometric Determination of Cyanide by Unsegmented Flow Methods, W85-03408 1807 5A

**VAN DE GUCHT, D.**  
Physically Based Flood Frequency Distribution, W85-02168 1804 2E

**VAN DAMME, D.**  
Evaluation of Ecological Forecasting Previous to the Hydroelectric Development of a Natural Subarctic Reservoir (Evaluation et Prevision Ecologique Prealable a L'Aménagement Hydroélectrique D'Un Reservoir Naturel Hemispherique), W85-03732 1807 5A

**VAN DE GUCHT, D.**  
Influence of Pollution on the Harpacticoid Copods of Two North Sea Estuaries, W85-00795 1802 5C

**VAN DE GUY, M. J.**  
Some Limnological Characteristics of a Temperate Forest Pond, W85-05651 1810 2H

**VAN DE VEN, F. H. M.**  
Design Inflow Intensity and Design Inflow Profiles For Storm Sewers, W85-01692 1804 2E

**VAN DE VOORDE, H.**  
Subchronic Effects of a Mixture of 'Persistent' Chemicals Found in the Great Lakes, W85-04479 1809 5C

**VAN DEN BERG, C. M. G.**  
Agroclimatic Approach to the Assessment of Tropical Droughts, W85-05080 1810 2B

**VAN DEN BERG, C. M. G.**  
Some Aspects of the Rainfall of Kerala and Adjoining Areas I. The Southwest Monsoon Rainfall of Cochin, W85-01466 1803 2B

**VAN DEN BERG, C. M. G.**  
Interdependence of Growth, Water Relations and Abscisic Acid Level in Phaseolus vulgaris During Waterlogging, W85-06106 1811 2I

**VAN DEN BERG, C. M. G.**  
Effect of Soil Moisture upon Soil Albedo, W85-01071 1802 2G

**VAN DEN BERG, C. M. G.**  
Test and Analysis of a Model of Water Use by Sognum, W85-01278 1803 2I

**VAN DEN BERG, C. M. G.**  
Effect of Height on the Performance of Anaerobic Downflow Stationary Fixed-Film Reactors Treating Bean Blanching Waste, W85-05232 1810 5D

**VAN DEN BERG, C. M. G.**  
Effect of Settling on Performance of the Upflow Anaerobic Sludge Bed Reactors, W85-04303 1808 5D

## AUTHOR INDEX

**VAN RIJN, L. C.**

<b>VAN DER BRUG, O.</b>						
Water Resources of Kosrae, Caroline Islands, W85-03936	1808	2E				
Water Resources of Ponape, Caroline Islands, W85-03937	1808	2E				
Water Resources of the Palau Islands, W85-03935	1808	2E				
<b>VAN DER BURG, A. M. M.</b>						
Computed and Measured Leaching of the Insecticide Methomyl from Greenhouse Soils into Water Courses, W85-02924	1806	5B				
Contribution of Leaching of Diazinon, Parathion, Tetrachorvinphos and Triazophos from Glasshouse Soils to Their Concentrations in Water Courses, W85-01961	1804	5B				
Leaching of Oxidation Products of Aldicarb from Greenhouse Soils to Water Courses, W85-02208	1805	5B				
<b>VAN DER HEIDE, J.</b>						
Effects of Phosphorus and Nitrogen Enrichment on the Yield of Some Strains of <i>Stigeoclonium</i> , Kutz. ( <i>Chlorophyceae</i> ), W85-04898	1809	5A				
<b>VAN DER KOOIJ, D.</b>						
Determination of the Concentration of Maltose- and Starch-Like Compounds in Drinking Water by Growth Measurements with a Well-Defined Strain of a Flavobacterium Species, W85-06139	1811	5A				
Sulfate-Reducing Bacteria in Ground Water from Clogging and Nonclogging Shallow Wells in the Netherlands River Region, W85-00313	1801	4B				
<b>VAN DER LOEFF, M. R.</b>						
Transportation of Water, Particulate and Dissolved Organic and Inorganic Matter between a Salt Marsh and the Ems-Dollard Estuary, The Netherlands, W85-02655	1805	2L				
<b>VAN DER MEULEN, F.</b>						
Vegetation Changes and Water Catchment in a Dutch Coastal Dune Area, W85-00124	1801	2L				
<b>VAN DER SCHAAF, S.</b>						
Errors in Level Recorder Data: Prevention and Detection, W85-02495	1805	7B				
<b>VAN DER VALK, A. G.</b>						
Response of Plant Species to Burial in Three Types of Alaskan Wetlands, W85-00248	1801	2L				
<b>VAN DIJCK, P. J.</b>						
Activated Charcoal and Microflora in Water Treatment, W85-02907	1806	5D				
<b>VAN DOREN, D. M. JR.</b>						
Influence of Long-Term Tillage and Crop Rotation on Water Erosion, W85-00755	1802	5G				
<b>VAN EIJKEREN, J. C. H.</b>						
Transport of Cationic Solutes in Sorbing Porous Media, W85-01345	1803	2G				
<b>VAN ELSLANDE, I.</b>						
Some Limnological Characteristics of a Temperate Forest Pond, W85-05651	1810	2H				
<b>VAN ES, F. B.</b>						
Use of a Model to Assess Factors Affecting the Oxygen Balance in the Water of the Dollard, W85-01839	1804	2L				
<b>VAN EVERDINGEN, R. O.</b>						
Dirty-Water Events at Rocky Mountain Hot Springs and Their Correlation with Other Short-Lived Phenomena, W85-03194	1806	2F				
<b>VAN GENUCHTEN, M. T.</b>						
Equivalence of Two Conceptual Models for Describing Ion Exchange During Transport Through an Aggregated Oxisol, W85-02368	1805	2G				
<b>VAN GENUCHTEN, M. TH.</b>						
Flux-Averaged and Volume-Averaged Concentrations in Continuum Approaches to Solute Transport, W85-02153	1804	2F				
<b>VAN HASSEL, J. H.</b>						
Factors Affecting Aquatic Macroinvertebrates Below a Fly Ash Pond Discharge, W85-04314	1808	5C				
<b>VAN HAVEREN, B. P.</b>						
Design for a Stable Channel in Coarse Alluvium for Riparian Zone Restoration, W85-03135	1806	2E				
Nonpoint Pollution Control on Public Lands, W85-05957	1811	5G				
<b>VAN HOOF, F.</b>						
Determination of Aliphatic Aldehydes in Waters by High-Performance Liquid Chromatography, W85-07164	1812	5A				
Ozonation and Activated Carbon Filtration: a Critical Evaluation, W85-02019	1804	5F				
<b>VAN KIRK, F. N.</b>						
Water Usage and Wastewater Study for a Specialty Food Processing Company, W85-05230	1810	5D				
<b>VAN KRANEN, H. J.</b>						
Presence, Introduction and Removal of Mutagenic Activity During the Preparation of Drinking Water in the Netherlands, W85-01217	1803	5F				
<b>VAN KRELJ, C. F.</b>						
Formation and Removal of Mutagenic Activity During Drinking Water Preparation, W85-01728	1804	5F				
Presence, Introduction and Removal of Mutagenic Activity During the Preparation of Drinking Water in the Netherlands, W85-01217	1803	5F				
<b>VAN LAAR, E. M. J. M.</b>						
Field Studies on the Breakdown of <i>Nuphar lutea</i> (L.) Sm. ( <i>Nymphaeaceae</i> ), and a Comparison of Three Mathematical Models for Organic Weight Loss, W85-05606	1810	2H				
<b>VAN LANGENHOVE, H.</b>						
CG-MS Identification of Odorous Volatiles in Wastewater, W85-07119	1812	5A				
<b>VANLEAR, D. H.</b>						
Sediment and Nutrient Export in Runoff from Burned and Harvested Pine Watersheds in the South Carolina Piedmont, W85-06714	1812	5B				
<b>VAN LEEUWEN, C. J.</b>						
Aquatic Toxicity of 2,6-Dichlorobenzamide (BAM), a Degradation Product of the Herbicide Dichlobenil, W85-04944	1809	5C				
<b>VAN RIJN, L. C.</b>						
Sediment Transport, Part I: Bed Load Transport, W85-03011	1806	2J				
Sediment Transport, Part II: Suspended Load Transport, W85-03780	1808	2J				

## AUTHOR INDEX

VAN RIJN, L. C.

Sediment Transport, Part III: Bed Forms and Alluvial Roughness, W85-03786 1808 2J

VAN ROOYEN, P. C. Effect of Irrigation Practices in the Bree River Valley on the Salt Content of a Small River, W85-05928 1811 5B

VAN ROSMALEN, G. M. Solubilities and Supersaturations of Calcium Sulfate and its Hydrates in Seawater, W85-05114 1810 3A

VAN SCHILFGAARDE, J. Minimizing Salt in Drain Water by Irrigation Management - Arizona Field Studies with Citrus, W85-03481 1807 3F

Minimizing Salt in Drain Water by Irrigation Management - Leaching Studies with Alfalfa, W85-03483 1807 3F

Salinity Pollution from Irrigated Agriculture, W85-05945 1811 5B

VAN SENDED, D. Mixing of Burdekin River Flood Waters in the Great Barrier Reef, W85-00776 1802 5B

VANT DACK, L. Presence of Tin and Tungsten in Thermal Waters Connected with Granites of Some Selected Regions in Europe, W85-05857 1811 2F

VAN VELD, P. A. Adaptation of Natural Microbial Communities to Degradation of Xenobiotic Compounds: Effects of Concentration, Exposure Time, Inoculum, and Chemical Structure, W85-00102 1801 5B

VAN VESSEM, J. Effects of Heating on Growth and Condition of Pikeperch (*Lucioperca lucioperca*) in Lowland Ponds Created by Sand Extraction, W85-06788 1812 5C

VAN VIERSSEN, W. Plant and Animal Communities in Brackish Supra-Littoral Pools ('Dobben') in the Northern Part of the Netherlands, W85-00408 1801 2L

Relationship Between the Growth of Algae and Aquatic Macrophytes in Brackish Water, W85-05744 1810 5C

VAN VUUREN, W. Evaluating Subsurface Drainage Benefit Estimation from Short-Term Cross-Section Data, W85-06077 1811 4A

VAN WALSUM, P. E. V. Steady Two-Dimensional Groundwater Seepage: Numerical Analysis in the Phi-, Psi-Plane, W85-01616 1803 2F

VAN WEELE, B. Small Hydro Supplements Irrigation Scheme, W85-06128 1811 8A

VAN WEERELT, M. Uptake and Release of 51Cr(VI) and 51Cr(III) by Barnacles (*Balanus* sp), W85-01353 1803 5B

VAN WIERINGEN, H. S. J. Influence of Rainfall Characteristics on the Pollution Emission, W85-01697 1804 2E

VAN WILLIS, W. Environmental Engineering and Public Health Aspects of Alternate Dairy Waste Management

Techniques Designed to Protect Ground Water Quality, W85-02724 1806 5E

VANBLARICOM, G. R. Man-Made Structures on Marine Sediments: Effects on Adjacent Benthic Communities, W85-01895 1804 6G

VANCSA, A. L. Biological Water Quality of the Tisza Between Tokaj and Tiszafured (On the Basis of Studies Carried out Between the Period 1971-1980), W85-03113 1806 5C

VANDENGRIFT, G. F. Interaction of Groundwater and Basalt Fissure Surfaces and Its Effect on the Migration of Actinides, W85-06774 1812 5B

VANDELANNOOTE, R. Presence of Tin and Tungsten in Thermal Waters Connected with Granites of Some Selected Regions in Europe, W85-05857 1811 2F

VANDENBURGH, A. S. Geohydrology, Aqueous Geochemistry, and Thermal Regime of the Soda Lakes and Upas Hogback Geothermal Systems, Churchill County, Nevada, W85-03898 1808 2F

VANDER WALL, S. B. Aquatic Birds of the White River, Uintah County, Utah, W85-06870 1812 6G

VANDERMEULEN, J. H. Oil Spills: What Have We Learned, W85-05223 1810 5C

VANDINE, D. F. Debris Flows and Debris Torrents in the Southern Canadian Cordillera, W85-06044 1811 2J

VANDIVER, V. J. Removal of Volatile Organic Pollutants from Rapid Streams, W85-01738 1804 5B

VANN, D. K. Effects of Salinity on Preferred and Lethal Temperatures of the Blackchin Tilapia, *Sarotherodon melanopterus*, W85-03143 1806 2L

VANONI, V. A. Fifty Years of Sedimentation, W85-02263 1805 2J

VANT, W. N. Chlorophyll-Nutrient Relationships in North Island Lakes (New Zealand), W85-05869 1811 2H

Factors Affecting Clarity of New Zealand Lakes, W85-04670 1809 2H

Optical Characterisation of Natural Waters by PAR Measurement Under Changeable Light Conditions, W85-06797 1812 2H

VANVONDEREN, S. D. Water Quality Characteristics of Agricultural Pumpage in the Upper St. Johns River, Florida, W85-01386 1803 5B

VANZYL, H. J. Sensitivity of Stone Fruit Rootstocks to Waterlogging, W85-04812 1809 2I

VARANASI, U. Effect of Aroclor 1254 on the Biological Fate of 2,6-Dimethylnaphthalene in Coho Salmon (*Oncorhynchus kisutch*), W85-04351 1808 5B

Exposure of Two Species of Deposit-Feeding Amphipods to Sediment-Associated (3H)-Benzo(a)pyrene: Uptake, Metabolism and Covalent Binding to Tissue Macromolecules, W85-06383 1812 5C

Simultaneous Exposure of English Sole (*Parophrys vetulus*) to Sediment-Associated Xeno-biotics: Part I - Uptake and Disposition of 14C-Polychlorinated Biphenyls and 3H-Benzo(a)Pyrene, W85-04870 1809 5C

VARDIA, H. K. Sensitivity of Toad Larvae to 2,4-D and Endosulfan Pesticides, W85-01369 1803 5C

VARESCHI, E. Ecology of Lake Nakuru; VI. Synopsis of Production and Energy Flow, W85-05704 1810 2H

VARGA, A. A. New Problems and Methods of Engineering-Geological Evaluation of Foundations of Large Dams, W85-00477 1801 8A

VARLAMOV, V. A. Iron Migration in Sandy Podzolic Soils under Increasing Hydromorphism Produced by a Reservoir, W85-05909 1811 6G

VARMA, A. K. Distribution and Periodicity of Total, Faecal Coliform Bacteria in an Aquatic Ecosystem, W85-01675 1804 5B

Influence of Physico-Chemical Factors on the Coliform Bacteria in a Closed-Lake Water System, W85-01672 1804 2H

VARMA, M. M. Trihalomethanes in Groundwater Systems, W85-06696 1812 5B

VARMA, S. Simultaneous Determination of Zinc and Chromate in Cooling Water by Differential Pulse Polarography, W85-04624 1809 5A

VARNES, A. W. Nature and Source of Arsenic in Northeastern Ohio Ground Water, W85-00325 1801 5B

VARSHNEY, D. V. Case Studies from India on the Environmental Impact of Dams, W85-03326 1807 6G

VARTANIAN, N. Changes in the Content of Polyamines and Their Precursors During the Morphogenetic Adaptation in Rape, *Brassica napus* L. var. *oleifera* M. la secheresse (Variations des teneurs en polyamines et leur précurseurs au cours de l'adaptation morphogénétique du Colza, *Brassica napus* L. var. *oleifera* M. la secheresse), W85-02338 1805 2I

Concept of Drought Adaptation (La Notation d'Adaptation à la Sécheresse), W85-02331 1805 2I

VARTANYAN, G. S. Isotope Investigations of the Conditions of Formation of Mineral and Thermal Waters in Some Caucasian Regions, W85-05152 1810 2F

VASANDER, H. Ecological Variation of Mire Site Types in the Small Kettle-Hole Mire Heinisu, Southern Finland, W85-02485 1805 2L

## AUTHOR INDEX

VERMA, S. R.

Effect of Forest Amelioration on Diversity in an Ombrotrophic Bog, W85-02484	1805 6G	VAUGHN, J. A. Optimization of Secondary Cooling Water Filtration in a Continuous Stainless Steel Casting Process, W85-05285	1810 5D	VELTE, J. S. Acute Toxicity of Hydrazine Hydrate to the Fathead Minnow ( <i>Pimephales promelas</i> ) and Daphnid ( <i>Daphnia pulex</i> ), W85-02969	1806 5C
VASIL'CHIKOVA, S. I. Effect of Differential Porosity on the Nature of Moisture Migration and Salt Accumulation in Soil (as Exemplified by Newly Developed Soils of Tadzhikistan), W85-06751	1812 2G	VAUGHN, J. M. Accumulation of Sediment-Associated Viruses in Shellfish, W85-00099	1801 5B	VENKATARAMAN, S. Comparative Study of the Climatological Estimation of Potential Evapotranspiration, W85-05095	1810 2D
VASIL'EV, I. M. Calculation of Three-Dimensional Stability of Deformation-Inhomogeneous Earth Dams, W85-01143	1803 8D	VAULINA, O. B. Characteristics of the Operation of the Mechanical Equipment of the Dam of the Krasnoyarsk-2 Hydroelectric Station, W85-00438	1801 8C	VENKATARAMANA, S. Growth Behaviour of Field Grown Sugarcane Varieties in Relation to Environmental Parameters and Soil Moisture Stress, W85-06192	1812 2I
VASIL'EV, O. F. Numerical Methods of Solving One-Dimensional Problems of Hydraulics, W85-04119	1808 8B	VAUX, H. J. JR. Managing Water Scarcity: An Evaluation of Interregional Transfers, W85-02145	1804 6F	VENKATARAMANI, E. S. Rapid Aerobic Biostabilization of High-Strength Industrial Landfill Leachate, W85-03870	1808 5D
VASIL'CHIKOVA, A. P. Primary Plankton Production of Lake Sharash (Pervichnaya Produktiya Planktona v oz. Sharash), W85-06465	1812 2H	VAVILIN, V. A. Generalized Model of Aerobic Biological Treatment, W85-01115	1802 5D	VENUGOPAL, K. Watershed Bounded Network Model (WBWN) for Runoff Prediction of Large Basins, W85-01237	1803 2E
VASILEV, I. M. Tensile and Compressive Strength of Clays for Assessing Cracking Conditions in Dams, W85-05984	1811 8D	Mathematical Model of the Process of Pollutant Removal in Rotating Disk Biofilters, W85-05160	1810 5D	VENUGOPALAN, V. K. Effect of Pesticides on Photosynthesis and Respiration of Marine Macrophytes, W85-02795	1806 5C
VASILEV, V. B. Multispecies Model of Biological Treatment with Sequential Pollutant Oxidation, W85-06166	1811 5D	Model of the Development of Phytoplankton in the Ucha Reservoir, W85-04097	1808 2H	VERDIN, K. L. Technique of Reinitialization for Efficient Simulation of Large Aquifers Using the Discrete Kernel Approach, W85-03574	1807 2F
VASILIKIOTIS, G. Identification and Determination of Some Trace Organic Compounds in Coastal Seawater of Northern Greece, W85-05016	1810 5B	Multispecies Model of Biological Treatment with Sequential Pollutant Oxidation, W85-06166	1811 5D	VERDOUW, H. Carbon Mineralization in Microaerobic and Anaerobic Strata of Lake Vechten (The Netherlands): Diffusion Flux Calculations and Sedimentation Measurements, W85-04702	1809 2H
VASSEUR, P. Comparison of the Microtox and Daphnia Test for the Evaluation of Industrial Effluents (Comparaison des Tests Microtox et Daphnie pour l'Evaluation de la Toxicite Aigue d'Effluents Industriels), W85-00907	1802 5A	VAZILEVICH, V. A. Experimental Investigation of Bed-Load Discharge, W85-05144	1810 2J	Nitrogen Cycle of Lake Vechten (The Netherlands); Role of Sedimentation, W85-00109	1801 2H
VASSIE, P. Reinforcement Corrosion and the Durability of Concrete Bridges, W85-02950	1806 8A	VEALE, B. J. Floodplain Policy and Practice in the Credit River Watershed, Ontario, W85-04587	1809 6F	VERHAGEN, J. H. G. Some Ecological Consequences of a Projected Deep Reservoir in the Kabalebo River in Suriname, W85-01764	1804 6G
VASUDEV, T. Effect of Dimecron, Rogor and Cuman L on AChE and Phosphatas in Fresh Water Mussel, Lamelidens marginalis (Lamarck.), W85-04377	1808 5C	VEDULA, S. Bed Shear from Velocity Profiles: A New Approach, W85-04400	1808 8B	VERHOEVEN, J. T. A. Plant and Animal Communities in Brackish Supra-Littoral Pools ('Dobben') in the Northern Part of the Netherlands, W85-00408	1801 2L
VASUDEVAN, P. Growth Studies of Azolla pinnata RBr. in a Permanent Pond, W85-05447	1810 5D	VEGAS, T. Light Attenuation in Spanish Reservoirs. Relationship with Chlorophyll and Suspended Particulate Material (Extincion de la luz en los Embalses Espanoles. Relaciones con la Concentracion de Clorofila y las Particulas en Suspension), W85-05747	1810 2H	VERHOFF, F. H. Analysis of Total Phosphorus Transport in River Systems, W85-02074	1804 2E
VAUCLIN, M. Surface Temperature Variability Patterns Within Irrigated Fields, W85-06688	1812 3F	VEKSLER, A. B. Transformation of the Ob River Channel Downstream of the Novosibirsk Hydroelectric Station, W85-06710	1812 6G	VERING, R. D. Long-Distance, High-Pressure Water Supply System for Bonanza Power Plant, W85-05328	1810 8C
VAUGHAN, G. L. Comparison of Growth, Population Structure, and Food of the Creek Club Semotilus atromaculatus in Undisturbed and Surface-Mining-Disturbed Streams in Tennessee, W85-02749	1806 5C	VELDHUIS, M. J. W. Availability of Dissolved Iron from Tjeukemeer, The Netherlands, For Iron-Limited Growing Scenedesmus quadricauda, W85-04978	1810 2H	VERMA, N. S. Seepage Through Till Foundations of Dams of the Eastmain - Opinaca - La Grande Diversion, W85-03418	1807 2F
VAUGHAN, N. D. Aquifer Test Analysis in Nonradial Flow Regimes: A Case Study, W85-05837	1810 2F	VELDRE, I. A. Water Protection Problems in Estonia: Hygienic Aspects, W85-04113	1808 5G	Stress-Deformation Predictions for the LG 4 Main Dam, W85-00141	1801 8D
VAUGHAN, P. R. Empingham Dam - Design, Construction and Performance, W85-06174	1812 8D	VELIKANOV, A. L. Determination of the Firm Yield of a System of Reservoirs for Water Supply, W85-00490	1801 6A	VERMA, P. K. Limnology of Badua Reservoir of Bhagalpur, Bihar, W85-04080	1808 2H
		VELIKANOV, M. A. Statistical Modeling of Interdependent Artificial Hydrologic Series with a Nonsymmetric Gamma Correlation, W85-05149	1810 2A	VERMA, S. R. Pollution and Saprobic Status of Eastern Kalinadi, W85-00798	1802 5C

## AUTHOR INDEX

**VERMA, S. R.**

Short Term Effects of Aldrin and Swascofix CD-38 on the Feeding and Respiratory Behaviors of <i>Clarias batrachus</i> and <i>Cirrhina mrigala</i> , W85-06269	1812 5C	Long-Term Precipitation Quality and Wet Deposition Fields in the Sudbury Basin, W85-03595	1807 5B	<b>VIGNESWARAN, S.</b>
<b>VERMEER, E. B.</b> Agriculture in China - A Deteriorating Situation, W85-06630	1812 4C	Influence of Different Levels of Soil Moisture as Well as of Nitrogen and Potassium Fertilizer on the Yield and Quality of Potatoes in Maturity Group IV. Second Report: Growth, Yield, and Yield Components (Der Einfluss Unterschiedlicher Bodenfeuchtestufen sowie Stickstoff- und Kaliumdungungsstufen auf Ertrag und Qualität von Kartoffeln der Reifegruppe IV), W85-06523	1812 2I	Flocculation Time Optimization in Direct Water Filtration, W85-03724
<b>VERMES, L.</b> Wastewater Disposal and Utilization in Agriculture in Poland and Hungary, W85-04664	1809 5E	Influence of Suspended Particle Size Distribution in Deep-Bed Filtration, W85-04876	1809 5F	
<b>VERNET, J. P.</b> Basic Concepts and Associated Statistical Methodology in the Geochemical Study of Lake Sediments, W85-02064	1804 2J	Optimization of Sand Recycle Rate in Mobile Bed Filtration, W85-04663	1809 5F	
Climatic and Anthropogenic Effects on the Sedimentation and Geochemistry of Lakes Bourget, Annecy and Leman, W85-02102	1804 2H	<b>VIGNESWARAN, S.</b>		
Manganese Cycle in Lac Leman, Switzerland: The Role of Metallogenium, W85-02081	1804 2H	Pilot-Scale Investigation of Particle Retention During Artificial Recharge, W85-06886	1812 4B	
<b>VERRIOPoulos, G.</b> Toxicity of Chromium to the Marine Planktonic Copepod <i>Acartia clausi</i> , Giesbrecht, W85-01469	1803 5C	<b>VIJAYENDRA BABU, K. V. K.</b> Effect of Dimecron, Rogor and Cuman L on AChE and Phosphatases in Fresh Water Mussel, <i>Lamelidens marginalis</i> (Lamarck.), W85-04377	1808 5C	
<b>VERRUE, K. M.</b> Toxicities of Butoxyethanol Ester and Propylene Glycol Butyl Ether Ester Formulations of 2,4-Dichlorophenoxy Acetic Acid (2,4-D) to Juvenile Salmonids, W85-05105	1810 5C	<b>VIK, E. A.</b>		
<b>VERSACE, P.</b> Flood-Induced Bed Changes in Alluvial Streams, W85-05004	1810 2E	Electrocoagulation of Potable Water, W85-02906	1806 5F	
Regional Flood Frequency Estimation Using the Two-Component Extreme Value Distribution, W85-05903	1811 2A	Removing Aquatic Humus from Norwegian Lakes, W85-06586	1812 5F	
Two-Component Extreme Value Distribution for Flood Frequency Analysis, W85-02151	1804 2E	<b>VIKMAN, H.</b>		
<b>VERSCHUREN, J. P.</b> Interflow Model: I. Model Development, W85-04577	1809 2A	Policy and Regulations in Scandinavia, W85-05197	1810 5D	
Interflow Model: II. Model Validation, W85-04579	1809 2A	<b>VIL'VOVSKII, V. V.</b>		
<b>VERTREES, R. L.</b> Matrix and Accompanying Classifications for Identifying Water Research Problems and Needs, W85-06246	1812 6A	Prospects of Using Automated Management Systems in Earth-Dam Construction, W85-05022	1810 8A	
<b>VESELOV, V. I.</b> Effect of the Outlet Angle Beta-2 on the Characteristics of Low Specific-Speed Centrifugal Pumps, W85-00460	1801 8C	<b>VILA, L.</b>		
<b>VESHCHEV, P. V.</b> Effect of Dredging Operations in the Volga River on Migration of Sturgeon Larvae, W85-02850	1806 6G	Temporal and Spatial Distribution of Rotifera in a Chilean Reservoir: A Possible Effect of Impoundment Hydrodynamics, W85-02481	1805 2H	
<b>VESILIND, P. A.</b> Technique for Estimating Sludge Compactability in Centrifugal Dewatering, W85-04286	1808 5D	<b>VILLALBA, J. R.</b>		
<b>VET, R. J.</b> Concentration and Deposition of Acidity, Major Ions and Trace Metals in the Snowpack of the Eastern Canadian Shield During the Winter of 1980-1981, W85-02730	1806 5B	Use and Re-Use of Itaipu's Diversion Gates, Part Two, W85-01553	1803 8C	
<b>VIEIRA DA SILVA, J.</b>		<b>VILLALOBOS, B.</b>		
Application of Fundamental Studies on the Improvement of Drought Resistance of Plants (Applications des Etudes Fondamentales à l'Amélioration de Plantes Résistantes à la Sécheresse), W85-02335	1805 2I	Temporal and Spatial Distribution of Rotifera in a Chilean Reservoir: A Possible Effect of Impoundment Hydrodynamics, W85-02481	1805 2H	
<b>VIEIRA, S. R.</b>		<b>VILLAUME, J. F.</b>		
Surface Temperature Variability Patterns Within Irrigated Fields, W85-06688	1812 3F	Investigations at Sites Contaminated with Dense, Non-Aqueous Phase Liquids (NAPLs), W85-06832	1812 5B	
<b>VIGANDER, S.</b>		<b>VILLENEUVE, D. C.</b>		
Reservoir Release Improvement, W85-05298	1810 5G	Subchronic Effects of a Mixture of 'Persistent' Chemicals Found in the Great Lakes, W85-04479	1809 5C	
<b>VINCENT, C. L.</b>		<b>VILLENEUVE, J.-P.</b>		
Nitrate Cycling in Lake Titicaca (Peru-Bolivia): The Effects of High-Altitude and Tropicality, W85-04896	1809 2H	Aluminum Speciation in Surface Waters on the Canadian Pre-Cambrian Shield, W85-02634	1805 2K	
<b>VINCENT, W. F.</b>		Suggestion for a Coupled Model of Surface and Groundwater Simulation on a Watershed (Proposition d'un modèle couple pour la simulation conjointe des écoulements de surface et des écoulements souterrains sur un bassin hydrologique), W85-02354	1805 2A	
Accelerated Eutrophication in a New Zealand Lake: Lake Rotoiti, Central North Island, W85-06794	1812 2H	<b>VINCENT, C. L.</b>		

## AUTHOR INDEX

**VONGVISESSOMJAI, S.**

**NITRATE CYCLING IN LAKE TITICACA (PERU-BOLIVIA): THE EFFECTS OF HIGH-ALTITUDE AND TROPICALITY,** W85-04896 1809 2H

**VINER, A. B.**  
Effect of Vertical Mixing on the Phytoplankton of Lake Rotongao (July 1979 January 1981), W85-00805 1802 2H

Resistance to Mixing in New Zealand Lakes, W85-02507 1805 2H

Use of the Electronic Particle Counter to Investigate Phosphorus on Particles in Streams, W85-04061 1808 7B

**VINES, R. G.**  
Rainfall Patterns in the Western United States, W85-00513 1802 2B

**VINING, L. J.**  
Waterfowl Populations and Limnologic Characteristics of Taiga Ponds, W85-04081 1808 2H

**VINOGRADOV, A. YA.**  
Temporal Variation of the Characteristics of Sands in Hydraulic-Fill Structures of the Riga Hydroelectric Station, W85-05023 1810 8D

**VINOGRADOV, B. V.**  
Quantitative Expression of Function for Remote Indication of Soil Moisture, W85-00158 1801 2G

**VINOT, H.**  
Water Pollution by Uranium Ore Treatment Works, W85-00793 1802 5C

**VIRAMONTE, D.**  
Status of Mining Claims within the National Rivers of the United States, W85-01245 1803 6E

**VIRARAGHAVAN, T.**  
Anaerobic Treatment Key to Pollution Control and Solids Disposal with Energy Recovery for a Food Processor, W85-05229 1810 5D

Performance of a Potato Processing Wastewater Treatment Plant: A Case History, W85-05565 1810 5D

**VIRDEE, T. S.**  
Brief Review of Kriging and its Application to Optimal Interpolation and Observation Well Selection, W85-05003 1810 2F

**VIRKOLA, N.-E.**  
Wastewater Characteristics, W85-07001 1812 5D

**VISCARDI, D. A.**  
Aluminum in Drinking Waters, W85-05914 1811 5F

**VISCHER, D.**  
Large Spillways in Brazil - Three Impressions from the ICOLD-Congress in Rio de Janeiro (Hochwasserentlastungen brasilianischer Talsprennen; drei Eindrücke vom ICOLD-Kongress 1982 in Rio de Janeiro), W85-01363 1803 8A

Surface Waters, an Exclusive Feature of Our Planet (Les Eaux de Surface, une Exclusivité de Notre Planète), W85-01230 1803 2A

**VISLYANSKAYA, I. G.**  
Abiotic Environmental Factors and Primary Production of Water Bodies of the Kovda River Basin (Abioticheskie Faktory Stedy i Pervichnaya Produktsiya Vodoemov Bassina r. Kovdy), W85-06480 1812 2H

**VISMARA, R.**  
Model for Autothermic Aerobic Digestion, Effects of Scale Depending on Aeration Efficiency and Sludge Concentration, W85-06731 1812 5D

**VISOCKY, A. P.**  
Impact of Lake Michigan Allocations on the Cambrian-Ordovician Aquifer System, W85-00343 1801 4B

**VISSEER, M. J.**  
Reactivation Surfaces in Subtidal Channel Deposits, Oosterschelde, Southwest Netherlands, W85-02836 1806 2J

**VISVANATHAN, C.**  
Optimization of Sand Recycle Rate in Mobile Bed Filtration, W85-04663 1809 5F

**VISVANATHAN, M. N.**  
Rainfall/Water-Table Level Relationship of an Unconfined Aquifer, W85-00359 1801 2F

**VISVANATHAN, P. N.**  
Water Flea (*Daphnia magna*) as a Sensitive Indicator for the Assessment of Toxicity of Synthetic Detergents, W85-02943 1806 5C

**VITENBERG, M. V.**  
Use of Weak Rocks in Dam Construction Abroad, W85-00433 1801 8E

Using Poor Quality Rock Materials for Dam Building, W85-04029 1808 8E

**VITTI, D. H.**  
Vegetation and Water Chemistry of Four Oligotrophic Basin Mires in Northwestern Ontario, W85-01648 1804 2H

**VIVIT, D. V.**  
Specific-Ion Electrode Determinations of Sulfide Preconcentrated from San Francisco Bay Waters, W85-03978 1808 2K

**VODOPICH, D. S.**  
Biological Communities of Three Subtropical Florida Lakes of Different Trophic Character, W85-02240 1805 2H

**VOERMAN, J.**  
Size Classes of 'Dissolved' Nutrients in Shallow, Alkaline, Humic and Eutrophic Tjeukemeer, The Netherlands, as Fractionated by Ultrafiltration, W85-04550 1809 2K

**VOEVODIN, A. F.**  
Numerical Methods of Solving One-Dimensional Problems of Hydraulics, W85-04119 1808 8B

**VOGEL, J. L.**  
Potential Urban Rainfall Prediction Measurement System, W85-01701 1804 2B

**VOGEL, R. M.**  
Flood-Plain Delineation in Ice Jam Prone Regions, W85-01578 1803 2E

Multisite ARMA (1,1) and Disaggregation Models for Annual Streamflow Generation, W85-06504 1812 2E

**VOGEL, T. M.**  
Biotransformation of Tetrachloroethylene to Trichloroethylene, Dichloroethylene, Vinyl Chloride, and Carbon Dioxide under Methanogenic Conditions, W85-07127 1812 5B

**VOGT, C.**  
Development of Revised Primary Drinking Water Regulations, W85-03625 1807 5F

**VOIGTLANDER, G.**  
Biogas from Small Facilities (Biogas aus kleinen Anlagen), W85-03466 1807 5D

Intensification of Wastewater and Sludge Treatment Processes Through Utilization of the Energy Potential of Wastewater (Intensivierung der Abwasser- und Schlammbehandlungsprozesse durch Nutzung des Eigenenergiopotentials der Abwasser), W85-01970 1804 5D

**VOINOV, A. A.**  
Minimal Model of Eutrophication in Freshwater Ecosystems, W85-02339 1805 2H

**VOJVODIC, V.**  
Electrochemical Determination and Characterization of Surface Active Substances in Freshwaters, W85-04972 1810 2H

**VOLK, B. G.**  
Effect of Acid Precipitation on Soil Microbial Activity: II. Field Studies, W85-06619 1812 5C

**VOLKART, P.**  
Bottom Aeration to Prevent Spillway Chutes from Cavitation Erosion (Sohlenbelüftung gegen Kavitationserosion in Schussrinnen), W85-03444 1807 8A

**VOLKER, R. E.**  
Transition Zone Width in Ground Water on Ocean Atolls, W85-06041 1811 2F

**VOLLENWEIDER, R. A.**  
Phosphorus Residence Time in Relation to Trophic Conditions in Lakes, W85-02616 1805 2H

**VOLOSHKEVICH, A. N.**  
Formation of Ichthyofauna in the Sasyk Reservoir Under Conditions of Freshening (Formirovaniye ikhtiofauny Sasykskogo Vodokhranilishcha v Vlosiviyakh Opresneniya), W85-06468 1812 6G

**VLIPICELLI, G.**  
Ozonation of Aqueous Solutions of Nitrobenzene, W85-05829 1810 5D

**VON BERNUTH, R. D.**  
Irrigation System Capacities for Corn Production in Nebraska, W85-01187 1803 3F

Sprinkler Droplet Size Distribution Estimation from Single Leg Test Data, W85-04745 1809 8C

**VON DAMM, K. L.**  
Reverse Weathering in the Closed-Basin Lakes of the Ethiopian Rift, W85-02468 1805 2K

**VON GUERARD, P.**  
Sediment Transport in the Lower Yampa River, Northwestern Colorado, W85-02045 1804 2J

**VON OERTZEN, I.**  
Wastewater Treatment with Aquatic Plants: Ecotypic Differentiation of *Typha domingensis* Seedlings, W85-02590 1805 5D

**VONGVISESSOMJAI, S.**  
Regime of Oscillatory Flow, W85-04247 1808 2E

## AUTHOR INDEX

**VOORHEES, M. L.**

**VOORHEES, M. L.**  
Evaluation of Urban Design Storm Sensitivity,  
W85-01693 1804 2B

**VOS, G.**  
Determination of Dissolved Hexavalent Chromium in River Water, Sea Water and Waste Water,  
W85-06761 1812 5A

**VOSE, P. B.**  
Amazon Basin: A System in Equilibrium,  
W85-01499 1803 2A

**VOSHELL, J. R. JR.**  
Colonization and Succession of Benthic Macroinvertebrates in a New Reservoir,  
W85-0425 1801 6G

Quantity and Quality of Seston in an Impounded and a Free-Flowing River in Virginia, U.S.A.,  
W85-06791 1812 2H

**VOSS, R. H.**  
Chlorinated Phenolics of Bleached Kraft Mill Origin; An Olfactory Evaluation,  
W85-00559 1802 5A

Neutral Organic Compounds in Biologically Treated Bleached Kraft Mill Effluents,  
W85-03665 1807 5D

**VOSSE, P.**  
Use of the Conveyance Method in Design and Analysis of Pressurized Effluent Distribution Systems,  
W85-06608 1812 5E

**VOTRUBA, L.**  
Hydro Energy in Czechoslovakia,  
W85-05816 1810 8A

**VOUTSINOU-TALIADOURI, F.**  
*Mytilus galloprovincialis* and *Parapenaeus longirostris* as Bioindicators of Heavy Metal and Organochlorine Pollution,  
W85-01899 1804 5A

**VOZZO, S. F.**  
Comparison of Daily and Weekly Precipitation Sampling Efficiencies Using Automatic Collectors,  
W85-05694 1810 7B

**VRHOVSEK, D.**  
Applicability of Some Numerical Methods and the Evaluation of Bryophyta Indicator Species for the Comparison of the Degree of Pollution Between Two Rivers,  
W85-02238 1805 5A

Effect on Water Chemistry and Phytoplankton of Artificial Inflow of the River Radovna into Lake Bled (Yugoslavia),  
W85-01473 1803 5G

**VRIJHOF, H.**  
Organotin Compounds and International Treaties on the Pollution of Water by Dangerous Substances: Black or Grey List Substances,  
W85-06845 1812 5G

**VUATAZ, F. D.**  
Tracing Groundwater Components by Chemical, Isotopic and Physical Parameters - Example: Schinznach, Switzerland,  
W85-06046 1811 2F

**VIKMIROVIC, V. D.**  
Statistical Methods of Storm Analysis,  
W85-01680 1804 2B

**VUKOVIC, Z.**  
Some Characteristics of Chemical Crystallization in Water Purification Process,  
W85-04409 1809 5F

**VUORIRANTA, P.**  
Influence of Sulfur Compounds on Biogas Production from Forest Industry Wastewater,  
W85-07021 1812 5D

**VUTSEL', V. I.**

Evaluation of the Engineering-Geological Properties of Clay Foundations of Earth Dams,  
W85-06594 1812 8D

**VYMAZAL, J.**  
Short-Term Uptake of Heavy Metals by Periphyton Algae,  
W85-04721 1809 5B

**WACHTER, J. K.**  
Organic Water Quality and Other Factors in Poultry Plant Wastewater Renovation and Reuse,  
W85-00557 1802 5D

**WADA, Y.**  
Quantification of Accumulated Loads on Road Surfaces and Their Runoff Characteristics,  
W85-01421 1803 5B

**WADDELL, E. L.**  
Optimization of Biological Recycling of Plant Nutrients in Livestock Waste by Utilizing Waste Heat from Cooling Water,  
W85-06983 1812 5D

**WADDELL, J. H.**  
Relative Effects of Chlorine and Ammonia from Wastewater Treatment Facilities on Stream Biota,  
W85-06342 1812 5C

**WADDELL, K. M.**  
Reconnaissance of the Shallow-Unconfined Aquifer in Salt Lake Valley, Utah,  
W85-03892 1808 2F

**WADDELL, R. K.**  
Two-Dimensional, Steady-State Model of Ground-Water Flow, Nevada Test Site and Vicinity, Nevada-California,  
W85-03893 1808 2F

**WADDELL, S. J.**  
Geohydrologic and Drill-Hole Data for Test Well USW H-3, Nye County, Nevada,  
W85-03901 1808 2F

**WADDINGTON, D.**  
Evaluation of Pumps and Motors for Photovoltaic Water Pumping Systems,  
W85-06988 1812 8C

**WADDINGTON, J. I.**  
International River Basin Management,  
W85-01388 1803 5G

**WADE, J. W.**  
Effects of Effluents from a Sewage Treatment Plant on the Aquatic Organisms,  
W85-02955 1806 5C

**WADIA, W.**  
Effect of Regulation of the Nile River on the Bioproductivity of Southeastern Mediterranean Sea,  
W85-02852 1806 6G

**WADIE, W. F.**  
Effect of Regulation of the Nile River Discharge on the Oceanographic Conditions and Productivity of the Southeastern Part of the Mediterranean Sea, (Utjecaj Regulacije Dotoka Rijeka Nil Na Oceanografska Svojstva I Produciju Jugoistocnog Dijela Sredozemnog Mora),  
W85-06423 1812 6G

**WADMAN-VAN SCHRAVENDIJK, H.**  
Interdependence of Growth, Water Relations and Abscisic Acid Level in *Phaseolus vulgaris* During Waterlogging,  
W85-06106 1811 2I

**WADOWSKY, R. M.**  
Effect of Temperature, pH, and Oxygen Level on the Multiplication of Naturally Occurring *Legionella pneumophila* in Potable Water,  
W85-07128 1812 5B

**WAELTI, J. J.**

Cost Sharing for Federal Water Projects: Trends and Implications,  
W85-05495 1810 6C

**WAGEL, D. J.**  
Chemical Study of the Interstitial Water Dissolved Organic Matter and Gases in Lake Erie, Cleveland Harbor, and Hamilton Harbour Bottom Sediments-Composition and Fluxes to Overlying Waters,  
W85-01814 1804 5B

**WAGEMANN, R.**  
Metal Toxicity to Algae: A Highly pH Dependent Phenomenon,  
W85-01494 1803 5C

**WAGENET, R. J.**  
Effects of Water and Salt Stress on Growth and Acetylene Reduction in Alfalfa,  
W85-03962 1808 2I

In Situ Estimation of Hydraulic Conductivity Using Simplified Methods,  
W85-03560 1807 2G

**WAGGY, W. H.**  
Wastewater Recycling in Muskegon County,  
W85-03796 1808 5D

**WAGNER, D. J.**  
Carbon Balance for Two Sphagnum Mosses: Water Balance Resolves a Physiological Paradox,  
W85-03729 1807 2I

**WAGNER, F.**  
Ion-Chromatographic Determination of the Anions Cl-, NO<sub>3</sub>- and SO<sub>4</sub><sup>2-</sup> in Rain Water (Ionen-chromatographische Bestimmung der Anionen Cl-, NO<sub>3</sub>- und SO<sub>4</sub><sup>2-</sup> in Regenwasser),  
W85-06755 1812 5A

**WAGNER, J. F.**  
Industrial Wastewater Treatment with Water Reuse at a Coal-Fired Generating Station,  
W85-02579 1805 5D

**WAGNER, K.**  
Musconetcong River Intensive Survey Report 803401,  
W85-00821 1802 5B

**WAGNER, M. W.**  
Postimpoundment Change in Financial Performance of the Southern Indian Lake Commercial Fishery,  
W85-00644 1802 6G

**WAGNER, R.**  
Influence of NTA on the Remobilization of Metals From Lake and River Sediments (Der Einfluss von NTA auf die Metallrucklösung aus Gewassersedimenten),  
W85-05043 1810 5B

Method for the Determination of COD of Low Loaded Waters (Eine CSB-Methode für Gering Belastete Wasser),  
W85-05044 1810 5A

Pilot Scale Studies on Enhanced Biological Phosphorus Removal in an Activated Sludge Treatment Plant with Nitrification and Predenitrification (Untersuchungen über die biologische Phosphor-Elimination in einer halbtechnischen Versuchsanlage mit weitgehender Nitrifikation und vorgeschalteter Denitrifikation),  
W85-05042 1810 5D

Wastewater Filtration with the Aid of a Quasi-continuously-fed Compact Filter Facility (Abwasserfiltration mit Hilfe einer quasikontinuierlich betriebenen Kompaktfilteranlage),  
W85-05041 1810 5D

**WAGSTAFF, W. H.**  
Cause of Continued Hypolimnetic Anoxia in Long Lake, WA, Following Advanced Wastewater Treatment by the City of Spokane,  
W85-04317 1808 5C

AUTHOR INDEX

WALLWORK, J. F.

**WAHL, K. L.**  
Determining Streamflow Characteristics Based on Channel Cross-Section Properties, W85-04327 1808 2E

**WAHLEN, M.**  
Concentration and Surface Morphology of Charcoal Particles in Sediments of Green Lake, N.Y.: Implications Regarding the Use of Energy in the Past, W85-00937 1802 5B

**WAI, C. M.**  
Dithiocarbamate Extraction of Gallium from Natural Waters and from Biological Samples for Neutron Activation Analysis, W85-04961 1809 5A

**WAINWRIGHT, H. K.**  
State-of-the-Art Approach to Hydrologic Data Management, W85-03191 1806 7B

**WAIS, M. T.**  
Appropriate Technology to Improve Drinking Water Quality, W85-02014 1804 5F

**WAITE, W. P.**  
Microwave Measurements of Moisture Distributions in the Upper Soil Profile, W85-02160 1804 2G

**WAJON, J. E.**  
Iron Removal From Ti02-Plant Acidic Wastewater, W85-02278 1805 5D

**WAKEFIELD, P.**  
Reducing the Federal Role in Wetlands Protection, W85-00275 1801 6E

**WAKELING, H. L.**  
Environmental Effects of Flood Control in the Yare Basin, W85-00568 1802 6G

**WALD, J. D.**  
Inventory and Analyses of Information for Flood Plain Management in North Dakota, W85-00617 1802 4A

**WALDER, J. S.**  
Stability of Sheet Flow of Water Beneath Temperate Glaciers and Implications for Glacier Surging, W85-00674 1802 2C

**WALDICHUK, M.**  
Biological Availability of Metals to Marine Organisms, W85-04891 1809 5B

**WALDMAN, J. P.**  
National Survey of Elements and Other Constituents in Municipal Sewage Sludges, W85-02192 1805 5E

**WALDRON, D. A.**  
Simulation of the August 1979 Sudden Discharge of Glacier-Dammed Flood Lake, British Columbia, W85-00960 1802 2E

**WALER, W. L.**  
Lateral Bulging of Earth Dams, W85-02259 1805 8D

**WALHOOD, V. T.**  
Water Use Efficiency of Narrow Row Cotton, W85-05918 1811 3F

**WALKER, D.**  
Selected Bibliography of Water Resources Publications for Mississippi, W85-02033 1804 10C

**WALKER, G. K.**  
Development and Validation of a Numerical Model Simulating Evaporation from Short Cores, W85-02866 1806 2G

**WALKER, I.**  
Structure and Ecology of the Micro-Fauna in the Central Amazonian Forest Stream 'Igarape da Cachoeira', W85-06387 1812 2E

**WALKER, J. F.**  
Empirical Study of Flood Measurement Error, W85-05805 1810 2E

**WALKER, K. C.**  
Wet Deposition Monitoring - Effect of Sampling Period, W85-05773 1810 5A

**WALKER, M.**  
Process Design Manual, Land Treatment of Municipal Wastewater, W85-05194 1810 5D

**WALKER, P. J.**  
Note on *Yersinia enterocolitica* in a Swine Farm Watershed, W85-06179 1812 5B

**WALKER, R. L.**  
Evaluation of Water Levels in Major Aquifers of the New Jersey Coastal Plain, 1978, W85-00854 1802 2F

**WALKER, R. W.**  
Toxicity and Binding of Copper, Zinc, and Cadmium by the Blue-Green Alga, *Chroococcus paris*, W85-02922 1806 5C

**WALKER, S.**  
Leaf Water and Turgor Potential Threshold Values for Leaf Growth of Wheat, W85-03362 1807 2I

**WALKER, T.**  
Tropical Australia, a Dynamic Limnological Environment, W85-05655 1810 2H

**WALKER, W. R.**  
Improvement and Sensitivity Analysis of the CORNGRO Model, W85-01304 1803 3F

Optimizing Salinity Control Strategies for the Upper Colorado River Basin, W85-06960 1812 5C

State Water Law: Legal Alternatives and Consequences, W85-06327 1812 6E

**WALLACE, D. E.**  
Mapping Average Daily Pan Evaporation, W85-01516 1803 2D

**WALLACE, G. T. JR.**  
Biogeochemical Fate and Toxicity of Mercury in Controlled Experimental Ecosystems, W85-00651 1802 5B

**WALLACE, J. B.**  
Invertebrate Drift, Discharge, and Sediment Relations in a Southern Appalachian Headwater Stream, W85-00400 1801 2H

Quantification of Wood Habitat in Subtropical Coastal Plain Streams, W85-03601 1807 2H

Substrate-mediated Response of Stream Invertebrates to Disturbance, W85-02818 1806 5C

**WALLACE, J. H.**  
South African Estuaries and Their Importance to Fishes, W85-02837 1806 2L

**WALLACE, J. S.**  
Crop Evaporation and Surface Conductance Calculated Using Soil Moisture Data from Central India, W85-01063 1802 2D

**WALLACE, L. A.**  
Personal Exposure to Volatile Organic Compounds; I. Direct Measurements in Breathing-Zone Air, Drinking Water, Food, and Exhaled Breath, W85-03041 1806 5A

**WALLACE, R. B.**  
Measurements to Quantify Wastewater Fields Produced by Outfall Diffusers, W85-00067 1801 5B

Spreading Layer of Two-Dimensional Buoyant Jet, W85-00731 1802 8B

**WALLEN, D. G.**  
Seasonal Variation of Nutrient Limitation in Western Lake Erie, W85-04719 1809 2H

**WALLENDER, W. W.**  
Economic Sprinkler Selection, Spacing, and Orientation, W85-03378 1807 3F

Foliar Fluoride Accumulation Under Sprinkle Irrigation, W85-01192 1803 5B

**WALLER, B. G.**  
Attenuation of Stormwater Contaminants from Highway Runoff within Unsaturated Limestone, Dade County, Florida, W85-03912 1808 5B

Attenuation of Stormwater Contaminants from Highway Runoff within Unsaturated Limestone, Dade County, Florida, W85-03944 1808 5B

**WALLIN, G.**  
Species-Dependent Variation in Algal Sensitivity to Chemical Compounds, W85-02698 1806 5A

**WALLIN, J.-E.**  
Annual Sediment Accmulation and Land Use History; Investigations of Varved Lake Sediments, W85-05627 1810 2J

**WALLIS, C.**  
Instrument for the Immediate Quantification of Bacteria in Potable Waters, W85-07130 1812 5A

**WALLIS, D. A.**  
Biological Treatability Study of Wastewater from a Nylon Fibers and Plastics Facility, W85-05415 1810 5D

**WALLIS, J. R.**  
Appraisal of the Regional Flood Frequency Procedure in the UK Flood Studies Report, W85-05905 1811 2E

**WALLIS, P. M.**  
Detection of Giardia Cysts at Low Concentrations in Water Using Nuclepore Membranes, W85-06225 1812 5A

Sludge Application to Land Compared with a Pasture and a Hayfield: Reduction of Biological Health Hazard Over Time, W85-03863 1808 5E

**WALLIS, S. G.**  
Calibration Studies Concerning a One-Dimensional Numerical Tidal Model with Particular Reference to Resistance Coefficients, W85-03635 1807 2L

**WALLWORK, J. F.**  
Automated Sensor Systems for Water Resource Pollution Warning and Treatment Process Control, W85-02010 1804 5F

## AUTHOR INDEX

**WALSH, D. M.**

**WALSH, D. M.**  
Lumped Parameter Model: Further Application  
in Chalk Aquifers, U.K.,  
W85-06827 1812 2F

**WALSH, G. E.**  
Final Report on Effect of Fenthion on Selected  
Estuarine Species Related to Field Study,  
W85-05124 1810 5C

**WALSKI, T.**  
Measuring Differential Pressure Accurately in  
Water Distribution Systems,  
W85-03322 1807 5F

**WALSKI, T. M.**  
Calculating Effectiveness of Water Conservation  
Measures,  
W85-06021 1811 6F

Cleaning and Lining Versus Parallel Mains,  
W85-04242 1808 5F

Estimating O and M Cost when Costs Vary with  
Flow,  
W85-01571 1803 6B

Planning Level Cost Estimating: Science, Art,  
or Witchcraft,  
W85-06954 1812 6C

Selecting an Economical Water Main Rehab,  
W85-02729 1806 5F

Verification of MAPS Cost Estimating Proce-  
dures,  
W85-06949 1812 6C

**WALSKI, Y. M.**  
How Much Water Can You Save With Conser-  
vation Measures,  
W85-05483 1810 3D

**WALTE, T. D.**  
Photoreductive Dissolution of Colloidal Iron  
Oxides in Natural Waters,  
W85-03057 1806 2K

**WALTER, G. R.**  
Repeated Pulse Technique for Determining the  
Hydraulic Properties of Tight Formations,  
W85-00308 1801 2F

**WALTER, M. F.**  
Electronic Transducer for Continuous Water  
Level Monitoring,  
W85-03371 1807 7B

**WALTER, P.**  
Reconnaissance Survey of the Mineralogy and  
Geochemistry of some New Zealand Lake and  
Nearshore Sediments,  
W85-00809 1802 2H

**WALTERS, D. M.**  
Approximating Pollutant Transport to Ground  
Water,  
W85-00349 1801 5B

**WALTERS, R.**  
Numerical Noise in Ocean and Estuarine  
Models,  
W85-03475 1807 2L

**WALTERS, R. A.**  
Low-Flow Transport Models for Conservative  
and Sorbed Solutes - Uvas Creek Studies,  
W85-03948 1808 2B

Transport and Concentration Controls for Chloride, Strontium, Potassium and Lead in Uvas Creek, a Small Cobble-Bed Stream in Santa Clara County, California, U.S.A.; 2. Mathematical Modeling,  
W85-04271 1808 2K

**WALTERS, R. W.**  
Liquid/Suspended Solid Phase Partitioning of  
Polycyclic Aromatic Hydrocarbons in Coal  
Coking Wastewaters,  
W85-00554 1802 5D

**WALTHER, E. G.**

Spatial Mapping of Conductive Ground Water  
Contamination with Electromagnetic Induction,  
W85-03177 1806 5A

**WALTHER, H.**

Qualitative and Quantitative Entomofaunistic In-  
vestigation of an Opencast Residual Lake near  
Leipzig (GDR),  
W85-04906 1809 2H

**WALTHER, H.-J.**

Optimization of the Activated Sludge Process  
Through Minimizing the Volume of Activated  
Sludge and Final Clarification Tanks (Optimierung  
des Volumens von Belebungs- und Nachklarbecken),  
W85-06656 1812 5D

**WALTI, K.**

Phytoplankton as a Factor in the Decline of the  
Submerged Macrophyte *Myriophyllum spicatum*  
L. in Lake Wingra, Wisconsin, U.S.A.,  
W85-00999 1802 2H

**WALTON, D. G.**

Increased Response of the Rainbow Trout  
Gonad Cell Unscheduled DNA Repair Assay,  
W85-05010 1810 5A

**WALTON, N. R. G.**

Lincolnshire Limestone - Hydrogeochemical  
Evolution Over a Ten-Year Period,  
W85-00017 1801 2F

**WALTON, T. L.**

Longshore Sand Transport Study at Channel  
Islands Harbor, California,  
W85-06918 1812 2J

**WAN, C.-C.**

Two-Column Method for Preconcentration of  
Trace Metals in Natural Waters on Acrylate  
Resin,  
W85-05518 1810 5A

**WAND, U.**

Lake Untersee, a First Isotope Study of the  
Largest Freshwater Lake in the Interior of East  
Antarctica,  
W85-07142 1812 2H

**WANDSCHNEIDER, P. R.**

Managing River Systems: Centralization Versus  
Decentralization,  
W85-06536 1812 4A

**WANG, B.-H.**

Estimation of Probable Maximum Precipitation:  
Case Studies,  
W85-03012 1806 2B

**WANG, D.-P.**

Lagrangian Transport Model for Estuaries,  
W85-02270 1805 2L

**WANG, D.-S.**

Use of Microorganisms as Ground-Water Trac-  
ters: A Review,  
W85-00299 1801 5A

**WANG, F. C.**

Dynamics of a River-Bay-Delta System,  
W85-02961 1806 2E

**WANG, J. D.**

Two-Dimensional Flood Routing on Steep  
Slopes,  
W85-02267 1805 6F

**WANG, J. R.**

Effect of Vegetation on Soil Moisture Sensing  
Observed from Orbiting Microwave Radiome-  
ters,  
W85-06215 1812 2G

Effects of Corn Stalk Orientation and Water  
Content on Passive Microwave Sensing of Soil  
Moisture,  
W85-03302 1807 7B

**WANG, L. K.**

Effect of Salinity on Reaeration Coefficient of  
Receiving Waters,  
W85-01398 1803 2L

**WANG, S.-Y.**

Analysis of Commonly Used Riprap Design  
Guides Based on Extended Shields Diagram,  
W85-06115 1811 2J

**WANG, W.**

Glaciers in the North-Eastern Part of the  
Ch'ing-Hai-Hsi-Tsang (Qinghai-Xizang) Plateau  
(Tibet) and their Variations,  
W85-03342 1807 2C

**WANG, W. L.**

Role of Stagnation and Obstruction of Water  
Flow in Isolation of *Legionella Pneumophila*  
from Hospital Plumbing,  
W85-03432 1807 5B

**WANG, Y.-S.**

Effect of Substrate Concentration and Organic  
and Inorganic Compounds on the Occurrence  
and Rate of Mineralization and Cometabolism,  
W85-02132 1804 5B

**WANG, Y.-T.**

Anaerobic Activated Carbon Filter for the Deg-  
radation of Polycyclic N-Aromatic Compounds,  
W85-04288 1808 5D

**WANGBERG, S.-A.**

Species-Dependent Variation in Algal Sensitivi-  
ty to Chemical Compounds,  
W85-02698 1806 5A

**WANGEN, L. E.**

Attenuation of Chemical Elements in Acidic  
Leachates from Coal Mineral Wastes by Soils,  
W85-04600 1809 5B

**WANIELISTA, M. P.**

Fate of Heavy Metals in Stormwater Runoff  
from Highway Bridges,  
W85-00746 1802 5B

Fate of Phosphorus and Nitrogen in Ponds Re-  
ceiving Highway Runoff,  
W85-00748 1802 5B

Impact of Bridging on Floodplains,  
W85-06067 1811 6G

**WANKIEWICZ, A.**

Analysis of Winter Heat Flow in an Ice-Covered  
Arctic Stream,  
W85-04042 1808 2C

Hydrothermal Processes Beneath Arctic River  
Channels,  
W85-03165 1806 2C

**WANNER, O.**

Groundwater Contamination by Volatile Halo-  
genated Alkanes: Abiotic Formation of Volatile  
Sulfur Compounds under Anaerobic Conditions,  
W85-06148 1811 5B

**WANNINKHOF, R.**

Gas Exchange-Wind Speed Relation Measured  
with Sulfur Hexafluoride on a Lake,  
W85-05055 1810 2H

**WANT, W. L.**

Federal Wetlands Law: The Cases and the Prob-  
lems,  
W85-01253 1803 6E

**WARD, A. D.**

Hydrology and Sedimentology Watershed  
Model. Part I: Operational Format and Hydro-  
logic Component,  
W85-04735 1809 2A

**WARD, A. K.**

Molecular Weight Fractionation of Dissolved  
Organic Nitrogen and Carbon Compounds from  
Two Lakes of Differing Trophic Status,  
W85-03229 1807 5B

## AUTHOR INDEX

WATANABE, M. F.

<b>WARD, B.</b>				
Amending the Water Act - Framing the Issues for Debate, W85-05833	1810	6E		
<b>WARD, C. H.</b>				
Anaerobic Inhibition of Trace Organic Compound Removal During Rapid Infiltration of Wastewater, W85-03435	1807	5D		
Fate of Trace Organics During Rapid Infiltration of Primary Wastewater at Fort Devens, Massachusetts, W85-01730	1804	5D		
Microbial Removal of Wastewater Organic Compounds as a Function of Input Concentration in Soil Columns, W85-03434	1807	5D		
<b>WARD, D. M.</b>				
Microelectrode Studies of Interstitial Water Chemistry and Photosynthetic Activity in a Hot Spring Microbial Mat, W85-02593	1805	2K		
<b>WARD, D. S.</b>				
Finite Element Matrix and Mass Balance Computational Schemes for Transport in Variably Saturated Porous Media, W85-05798	1810	5B		
Numerical Simulation of Thermal Energy Storage Experiment Conducted by Auburn University, W85-00335	1801	4B		
<b>WARD, G. H. JR.</b>				
Marsh Enhancement by Freshwater Diversion, W85-04240	1808	2L		
<b>WARD, G. M.</b>				
Size Distribution and Lignin Content of Fine Particulate Organic Matter (FPOM) from Microbially Processed Leaves in an Artificial Stream, W85-05669	1810	2H		
<b>WARD, G. S.</b>				
Acute and Chronic Toxicity of Atrazine to Estuarine Fauna, W85-06413	1812	5C		
<b>WARD, J.</b>				
Distribution of Aquatic Macrophytes in Lake Alexandrina, New Zealand, W85-03074	1806	2H		
<b>WARD, J. D.</b>				
Drought Stress and the Demise of <i>Acacia albida</i> Along the Lower Kuiseb River, Central Namib Desert: Preliminary Findings, W85-00215	1801	2B		
<b>WARD, J. R.</b>				
Effects of Specific Land Uses on Nonpoint Sources of Suspended Sediment, Nutrients, and Herbicides- Pequea Creek Basin, Pennsylvania 1979-80, W85-00855	1802	5B		
<b>WARD, J. V.</b>				
Effects of Sediment Releases from a Reservoir on Stream Macroinvertebrates, W85-01471	1803	5C		
Influence of Highway Construction on the Macroinvertebrates and Epilithic Algae of a High Mountain Stream, W85-01470	1803	5C		
Macroinvertebrates and Fish of a Colorado Stream During a Period of Fluctuating Discharge, W85-00295	1801	2H		
Stream Regulation of the Upper Colorado River: Channel Configuration and Thermal Heterogeneity, W85-05666	1810	6G		
<b>WARD, L. G.</b>				
Influence of Waves and Seagrass Communities on Suspended Particulates in an Estuarine Embayment, W85-03347	1807	2L		
<b>WARD, N. R.</b>				
Effect of pH, Application Technique, and Chlorine-to-Nitrogen Ratio on Disinfectant Activity of Inorganic Chloramines with Pure Culture Bacteria, W85-02933	1806	5F		
Inorganic Chloramines as Drinking Water Disinfectants: A Review, W85-00705	1802	5F		
<b>WARD, R. C.</b>				
Response to Precipitation of Headwater Streams in Humid Areas, W85-03089	1806	2E		
Survey of State Water Quality Monitoring Programs, W85-00973	1802	7B		
<b>WARD, W. P.</b>				
State-of-the-Art Approach to Hydrologic Data Management, W85-03191	1806	7B		
<b>WARDA, Z.</b>				
Heavy Metals in the Aquatic Environment of Some Water Bodies of the Lublin Coal Basin, W85-00232	1801	5B		
<b>WARDLAW, A. C.</b>				
Without Water the Work of Death Would be Incomplete, W85-06800	1812	2K		
<b>WARDLAW, L.</b>				
Evaluation of Public Notification Requirements in California, W85-06583	1812	6E		
<b>WARDLE, D. G.</b>				
Hydraulic Forces on Rails for Vertical Lift, High Head Gates, W85-06579	1812	8C		
<b>WARE, L.</b>				
Great Salt Lake Gets Greater Every Day, W85-03078	1806	2E		
<b>WARGO, W. F.</b>				
Adsorption of Anionic and Cationic Metals by Non-Ionic Polymeric Resins, W85-06312	1812	5D		
<b>WARINNER, J. E.</b>				
Effects of Toxic Chemicals on Macrophage Phagocytosis in Two Estuarine Fishes, W85-05891	1811	5C		
<b>WARKENTINE, B.</b>				
Toxicological Response of the Alga <i>Anabaena flos-aqua</i> (Cyanophyceae) to Cadmium, W85-02197	1805	5C		
<b>WARN, A. E.</b>				
Calculating Future Levels of Nitrate in Rivers and Pumped Storage Reservoirs, W85-01435	1803	5G		
Calculation of the Compliance of Discharges with Emission Standards, W85-01401	1803	5A		
<b>WARNER, J. M.</b>				
Purge and Trap Chromatographic Method for the Determination of Acrylonitrile, Chlorobenzene, 1,2-Dichloroethane, and Ethylbenzene in Aqueous Samples, W85-02736	1806	5A		
<b>WARNER, J. W.</b>				
Modeling Physics and Chemistry of Contaminant Transport in Three-Dimensional Unsaturated Groundwater Flow, W85-06301	1812	2F		
<b>WARNER, R. C.</b>				
Hydrology and Sedimentology Watershed Model. Part II: Sedimentology Component, W85-04736	1809	2A		
<b>WARNOCK, J. G.</b>				
Trends in Pumped-Storage Development, W85-02672	1805	8A		
<b>WARR, E.</b>				
Changes in the Extractabilities of the Heavy Metals in Water-Logged Sludge-Treated Soils, W85-04514	1809	5E		
<b>WARREN, G. J.</b>				
Long-term Phytoplankton Changes in Lake Michigan: Cultural Eutrophication or Biotic Shifts, W85-02639	1805	2H		
<b>WARREN, R. S.</b>				
Salt Marsh Vegetation Change in Response to Tidal Restriction, W85-00978	1802	2L		
<b>WARRICK, A. W.</b>				
Design Nomographs for Trickle Irrigation Systems, W85-01505	1803	8A		
Generalized Solution to Infiltration, W85-05182	1810	2G		
Hillside Seepage: An Analytical Solution to a Nonlinear Dupuit-Forchheimer Problem, W85-05796	1810	2F		
Salt and Water Transport in Unsaturated Soil for Non-Conservative Systems, W85-06686	1812	2G		
<b>WASHINGTON, D. R.</b>				
Handling of Aluminum Forming Wastewater, W85-05236	1810	5D		
<b>WASHINGTON, H. G.</b>				
Modelling the Transport of Reacting Chemical Contaminants in Natural Streams, W85-00778	1802	5B		
<b>WASSERLAUF, M.</b>				
CANMET'S Project on the Chemistry, Generation and Treatment of Thiosalts in Milling Effluents, W85-07091	1812	5D		
<b>WASSMANN, P.</b>				
Hydrography, Nutrients, Suspended Organic Matter, and Primary Production in a Shallow Fjord System on the West Coast of Norway, W85-05713	1810	2L		
Sedimentation of Organic and Inorganic Particulate Material in Lindaspollene, a Stratified, Land-Locked Fjord in Western Norway, W85-01767	1804	2L		
<b>WATANABE, E.</b>				
Bioconcentration Potential of Polydimethylsiloxane (PDMS) Fluids by Fish, W85-02865	1806	5C		
<b>WATANABE, H.</b>				
Water Quality Characteristics of the Harima Nada Coastal Area, COD Load Caused by Primary Production, W85-04969	1810	2L		
<b>WATANABE, I.</b>				
Brominated Phenol Production from the Chlorination of Wastewater Containing Bromide Ions, W85-02776	1806	5B		
<b>WATANABE, M. F.</b>				
Effects of Environmental Factors on Toxicity of a Cyanobacterium ( <i>Microcystis aeruginosa</i> ) under Culture Conditions, W85-07134	1812	5C		

## AUTHOR INDEX

**WATANABE, N.**

**WATANABE, N.**  
Adsorption and Desorption of Polydimethylsiloxane, PCBs, Cadmium Nitrate, Copper Sulfate, Nickel Sulfate and Zinc Nitrate by River Surface Sediments, W85-06432 1812 5B

Bioconcentration Potential of Polydimethylsiloxane (PDMS) Fluids by Fish, W85-02865 1806 5C

**WATANABE, T.**  
Diatom Assemblages in Lacustrine Sediments of Lake Shibu-ike, L. Misumi-ike, L. Naga-ike, L. Kido-ike in Shiga Highland and a New Biotic Index Based on the Diatom Assemblage for the Acidity of Lake Water (in Japanese), W85-00535 1802 5C

Water Quality Assessment of Seven Rivers in Noto Peninsula Using Epilithic Diatom Communities on River Bed as Biological Indicators (in Japanese), W85-02255 1805 5A

**WATANABE, Y.**  
Heterotrophic Bacterial Community in Oligotrophic Lake Tahoe, W85-02649 1805 2H

Transformation and Decomposition of Photosynthetic Products of Lake Phytoplankton, W85-02254 1805 2H

**WATENPAUGH, D. E.**  
Swimming Performance of Channel Catfish (*Ictalurus punctatus*) after Nitrite Exposure, W85-07153 1812 5C

**WATERHOUSE, J. S.**  
Effects of Low Concentrations of Particulates from Paper Mill Effluent on the Macroinvertebrate Community of a Fast-Flowing Stream, W85-01003 1802 5C

**WATERS, T.**  
Small-Scale Gravity Flow Water Systems in Phrae Province, Thailand, W85-03709 1807 5F

**WATERS, T. F.**  
Annual Production by *Gammarus pseudolimnaeus* Among Substrate Types in Valley Creek, Minnesota, W85-02279 1805 2H

**WATKINS, C. E. II.**  
Prediction of Chlorophyll a Concentrations in Florida Lakes: Importance of Aquatic Macrophytes, W85-00154 1801 2H

Toxicity of Adjuvants to Bluegill, W85-04354 1808 5C

**WATKINS, C. H.**  
Toxicity of Chlorine to a Common Vascular Aquatic Plant, W85-01731 1804 5C

**WATKINS, D.**  
Toxic Substances Monitoring Program, 1982, W85-06329 1812 5A

**WATKINS, S. A.**  
Effects of Channel Excavation on Water-Quality Characteristics of the Black River and on Ground-Water Levels near Dunn, North Carolina, W85-01924 1804 2A

Hydrologic Condition of the Chicod Creek Basin, North Carolina, Before and During Channel Modifications, 1975-81, W85-03928 1808 4A

**WATKINS, W. D.**  
Effect of Fecal Pollution on *Vibrio parahaemolyticus* Densities in an Estuarine Environment, W85-07132 1812 5C

**WATLING, R. J.**  
Rapid Assessment of Effluent Toxicities Using *E. coli* as a Bioindicator, W85-04347 1808 5A

**WATSON, I.**  
Hydrogeologic Control and Statistical Prediction of Active Mass Movement, W85-04026 1808 8D

**WATSON, K. K.**  
Algebraic Equations for Solute Movement During Adsorption, W85-02369 1805 2G  
Hysteresis Affected Water Movement in Scale Heterogeneous Profiles, W85-01346 1803 2G

**WATSON, P. G.**  
Effects of Pollution on the Benthos of the Firth of Forth, W85-00800 1802 5C

**WATSON, T. A.**  
Effects of Acephate (Orthene) on Development and Survival of the Salamander, *Ambystoma gracile* (Baird), W85-00170 1801 5C

In Vitro Effects of Acephate on Acetylcholinesterase Activity in the Brain and Gills of Rainbow Trout, *Salmo gairdneri*, W85-00171 1801 5C

**WATSON, W. D.**  
Losses from Effluent Taxes and Quotas under Uncertainty, W85-07089 1812 5G

**WATT, M. H.**  
Design of a Water Resources Training Program for Operation, Maintenance and Management, W85-06308 1812 9A

**WATT, R. D.**  
Characteristics of Activated Sludge Effluents before and after Ozonation, W85-07045 1812 5E

**WATT, W. E.**  
Design Storms for Urban Drainage Design, W85-04049 1808 2B

**WATTEN, B. J.**  
Sub-Surface Water Sampler for Lake, Pond and River Studies, W85-04086 1808 7B

**WATTERS, S. P.**  
Forests and Other Factors Associated with Streamflows in East Texas, W85-03137 1806 2E

**WATTIER, K. L.**  
Surrogate Parameters for Monitoring Organic Matter and THM Precursors, W85-06491 1812 5F

**WATTON, A. J.**  
Acute Toxicity of Ammonia and Copper to the Gastropod *Potamopyrgus jenkinsi* (Smith), W85-03042 1806 5A

Studies on the Effects of Sewage Effluent on Gastropod Populations in Experimental Streams, W85-03540 1807 5C

**WATTS, C. D.**  
Nonvolatile Organic Compounds in Treated Waters, W85-01208 1803 5F

Organic Compounds in Water: Analysis Using Coupled-Column High-Performance Liquid Chromatography and Soft-Ionization Mass Spectrometry, W85-02808 1806 5A

**WATTS, D. G.**  
Irrigation System Capacities for Corn Production in Nebraska, W85-01187 1803 3F

Model and Production Function for Irrigation Management, W85-01508 1803 3F

Water Conservation through Limited Irrigation of Corn and Grain Sorghum in the Great Plains, W85-01952 1804 3F

**WATTS, P. J.**  
Evapotranspiration - How Good is the Bowen Ratio Method, W85-06672 1812 2D

**WAUCHOPE, R. D.**  
Adsorption-Desorption Kinetics of Atrazine and Linuron in Freshwater-Sediment Aqueous Slurries, W85-06624 1812 5B

Adsorption of Phosphate, Arsenate, Methane-arsenate, and Cacodylate by Lake and Stream Sediments: Comparisons with Soils, W85-01297 1803 5B

**WAWRONOWICZ, L. J.**  
Relative Effects of Chlorine and Ammonia from Wastewater Treatment Facilities on Stream Biota, W85-06342 1812 5C

**WAY, S. C.**  
Detection of an Impermeable Boundary in an Anisotropic Formation: A Case Study, W85-02691 1805 2F

In-Situ Determination of Three-Dimensional Aquifer Permeabilities, W85-00338 1801 2F

State-of-the-Art Approach to Hydrologic Data Management, W85-03191 1806 7B

**WAYLEN, P. R.**  
Regionalization and Prediction of Floods in the Fraser River Catchment, B.C., W85-05002 1810 2E

**WAYMIRE, E.**  
Scale Considerations in the Modeling of Temporal Rainfall, W85-03559 1807 2B

Spectral Theory of Rainfall Intensity at the Meso-beta Scale, W85-03169 1806 2B

**WCISLO, R.**  
Factors Affecting Alkaline Phosphatase Activity in a Lake (Short-Terms Experiments), W85-00226 1801 2H

**WEAKS, T. E.**  
Effects of pH on Toxicity of As, Cr, Cu, Ni, and Zn to *Selenastrum capricornutum* Printz, W85-04066 1808 5C

Step-Wise Discriminant Analysis of the Effects of Long Term Coal Mine Drainage and Coal Dredging on Phytoplankton of the Guyandotte River, W85-01480 1803 5C

**WEAVER, D. L.**  
Comparison of the Mutagenicity of Sewage Sludges, W85-03662 1807 5E

**WEBB, E. K.**  
Evaluation of Evapotranspiration and Canopy Resistance: An Alternative Combination Approach, W85-06673 1812 2D

## AUTHOR INDEX

<b>WEBB, L. J.</b>			<b>WEISS, J. S.</b>
Characteristics of Paper/Board Mill Wastewaters Relevant to Anaerobic Treatment, W85-07002	1812 5D		
<b>WEBER, A.</b>			
Effects of Various Organic Chemicals on the Regreening of Red Colored Chlorella zofingiensis, W85-05814	1810 5A		
<b>WEBER, A. S.</b>			
Rational Design Parameters for Ammonia Conversion in Water Hyacinth Treatment Systems, W85-07052	1812 5D		
<b>WEBER, D. D.</b>			
Spatial Mapping of Conductive Ground Water Contamination with Electromagnetic Induction, W85-03177	1806 5A		
<b>WEBER, E. C.</b>			
Mitigating Effects of Artificial Riffles and Pools on the Fauna of a Channelized Warmwater Stream, W85-00203	1801 6G		
<b>WEBER, F. H.</b>			
Interactions of Carbaryl with Estuarine Bacterial Communities, W85-03238	1807 5C		
<b>WEBER, H.</b>			
Analysis of Quantitative Wastewater Measurements of a Country Restaurant Situated at Approximately 1080 m Altitude and of a Mountain Inn Situated at Approximately 1410 m Altitude (Auswertung von Schmutzwasser-Mengenmessungen bei einem Ausflugsrestaurant, rund 1080 m u. M. und bei einem Berggasthof, rund 1410 m u. M.), W85-01854	1804 5D		
<b>WEBER, H. W.</b>			
Effect of Irrigation Practices in the Bree River Valley on the Salt Content of a Small River, W85-05928	1811 5B		
<b>WEBER, P. A.</b>			
Relationship of Grain-Size Distribution and Hydraulic Conductivity - An Alternate Approach, W85-01534	1803 2F		
<b>WEBER, R.</b>			
Fitness Programs for Hydroelectric Power Plants; Prevention of Wear and Tear on Turbines and Generators (Fitness-Programme für Wasserkraftwerke; Verschleiss und Schadenverhütung an Turbinen und Generatoren), W85-01259	1803 8C		
Pumps for Liquids, Especially for Wastewater (Pumpen für Flüssigkeiten, insbesondere für Abwasser), W85-01864	1804 8C		
Sealing of the Heavily Jointed Sandstone Strata at Brombach-Dam (Abdichtung des stark kluftigen Sandsteingebirges an der Brombachaltsperre), W85-03260	1807 8F		
Simulation of Dispersion of Heavy Particles in Confined Turbulent Flows, W85-00197	1801 2J		
<b>WEBER, W. J. JR.</b>			
Modeling Organic Contaminant Partitioning in Ground-Water Systems, W85-02692	1805 5B		
Removal of Dieldrin from Water by Activated Carbon, W85-00720	1802 5F		
Removing Humic Substances by Chemical Treatment and Adsorption, W85-06492	1812 5F		
<b>WEBSTER, J. J.</b>			
Use of Fixed-Bed Adsorber Models to Predict the Fluxes of Toxic Substances in Groundwaters and Soil Environments, W85-01793	1804 5B		
<b>WEBSTER, J. R.</b>			
Determination of Microbial Cell Numbers in Subsurface Samples, W85-04636	1809 5A		
Phosphorus Uptake by Decomposing Leaf Detritus: Effect of Microbial Biomass and Activity, W85-05670	1810 2H		
Seston Transport in Streams at Coweeta Hydrologic Laboratory, North Carolina, U.S.A., W85-05671	1810 2J		
Shredder Abundance and Leaf Breakdown in an Appalachian Mountain Stream, W85-04899	1809 2H		
<b>WECHS, F.</b>			
Influence of Pretreatment on Anaerobic Stabilization of Sewage Sludge, W85-04002	1808 5E		
<b>WEEKS, B. A.</b>			
Effects of Toxic Chemicals on Macrophage Phagocytosis in Two Estuarine Fishes, W85-05891	1811 5C		
<b>WEERASOORIYA, S. V. R.</b>			
Distribution of Nitrates in the Potable Waters of Sri Lanka, W85-02015	1804 5B		
Geochemistry of Well Water and Cardiovascular Diseases in Sri Lanka, W85-01674	1804 5C		
<b>WEERTMAN, J.</b>			
Stability of Sheet Water Flow under a Glacier, W85-03341	1807 2C		
<b>WEGENER, U.</b>			
Bioindication for the Decrease in Nitrogen Loss and Nitrogen Pollution of the Waters (Bioindikation zur Verminderung von Stickstoffdünger-verlusten und der Stickstoffbelastung von Gewässern), W85-06260	1812 5G		
<b>WEGMAN, R.</b>			
Joint Effects of a Mixture of 14 Chemicals on Mortality and Inhibition of Reproduction of <i>Daphnia magna</i> , W85-03688	1807 5C		
<b>WEGMAN, R. C. C.</b>			
Morphological Changes in the Gill of Carp ( <i>Cyprinus carpio</i> L.) Exposed to Acutely Toxic Concentrations of Methyl Bromide, W85-02916	1806 5C		
<b>WEGNER, D. L.</b>			
Phosphorus Release from the Sediments of Flaming Gorge Reservoir, Wyoming, U.S.A., W85-05630	1810 2H		
<b>WEHR, J. D.</b>			
Aquatic Cryptograms of Natural Acid Springs Enriched with Heavy Metals: the Kootenay Paint Pots, British Columbia, W85-00402	1801 2H		
<b>WEHRMAN, P. J.</b>			
Algorithm For Mixing Problems in Water Systems, W85-05780	1810 6C		
<b>WEHTJE, G.</b>			
Leaching of Atrazine in the Root Zone of an Alluvial Soil in Nebraska, W85-03851	1808 5B		
<b>WEI, Q. F.</b>			
Effect of Sludge Application of Physical Properties of a Silty Clay Loam Soil, W85-06715	1812 5E		
<b>WEIBEL, T.</b>			
Erosion Control at High Altitudes (Erosionsbekämpfung im Hochgebirge), W85-01863	1804 4D		
<b>WEICHERT, B.</b>			
Effects of Freshwater Runoff on Nearshore Tropical Marine Fisheries, W85-00064	1801 5C		
<b>WEIDENAUER, M.</b>			
Determination of Trace Elements in River Water by Means of Voltammetry (Bestimmung von Spurenelementen in Flusswasser mit Hilfe der Voltammetrie), W85-06760	1812 5A		
<b>WEIGEL, J. F.</b>			
Surface Water and Climatologic Data, Salt Lake County, Utah, Water Year 1981, With Selected Data for Water Years 1980 and 1982, W85-00603	1802 7C		
<b>WEIGL, P. J.</b>			
Further Tasks for the Intensification of Wastewater and Sludge Treatment (Die weiteren Aufgaben zur Intensivierung der Abwasser- und Schlammbehandlung), W85-03458	1807 5D		
<b>WEIL, L.</b>			
Identification and Determination of Some Trace Organic Compounds in Coastal Seawater of Northern Greece, W85-05016	1810 5B		
<b>WEIL, R. R.</b>			
Phosphorus Renovation of Wastewater by Overland Flow Land Application, W85-00076	1801 5D		
<b>WEINBERG, A.</b>			
Nonpoint Sources of Water Pollution, W85-05940	1811 5B		
<b>WEINERT, A.</b>			
Predicting Treatability of Multiple Organic Priority Pollutant Wastewaters from Single-Pollutant Treatability Studies, W85-05280	1810 5D		
<b>WEIR, G. J.</b>			
Motion of Two Compressible Fluids with Interface in a Porous Reservoir, W85-02154	1804 2F		
<b>WEIS, L.</b>			
Determination of Diesel Fuel as Contamination in Water (Die Bestimmung von Dieselöl als Verunreinigung im Wasser), W85-01056	1802 5A		
<b>WEIS, P.</b>			
Metallothionein and Mercury Tolerance in the Killifish, <i>Fundulus heteroclitus</i> , W85-05885	1811 5C		
<b>WEISBRODT, W.</b>			
Water Quality Management in the Chemical Industry - BASF's Ludwigshafen Complex as an Example - Investigations, Design, Operation, W85-04008	1808 5D		
<b>WEISHAAR, J. A.</b>			
Contaminant Analysis of Fillets from Great Lakes Coho Salmon, 1980, W85-01358	1803 5A		
<b>WEISMILLER, R. A.</b>			
Saving the Chesapeake: Maryland's Agricultural Education Program, W85-05953	1811 5G		
<b>WEISS, A.</b>			
Quantitative Approach to the Pruitt and Doorenbos Version of the Penman Equation, W85-05936	1811 2D		
<b>WEISS, J. S.</b>			
Simulation of Ground-Water Flow in a Mined Watershed in Eastern Ohio, W85-02687	1805 4C		

## AUTHOR INDEX

**WEISS, L. A.**

**WEISS, L. A.**  
Evaluation and Design of a Streamflow-Data Network for Connecticut, W85-00052 1801 7A

**WEISS, V.**  
Batch and Continuous Culture Experiments on Nutrient Limitations and Temperature Effects in the Marine Alga *Tetraselmis suecica*, W85-04973 1810 5D

**WEISS, W.**  
Implications of Slow Deep Water Renewal of Lake Koenigsee Derived from Combined Tritium-Helium Measurements, W85-06395 1812 2H

**WELANDER, T.**  
Anaerobic Treatment of Wastewater from the Production of Chemi-Thermomechanical Pulp, W85-07007 1812 5D

**WELBY, C. W.**  
Ground Water Yields and Inventory for Land-Use Planning in Crystalline Rock Areas of Wake County, North Carolina, W85-04994 1810 2F

**WELCH, A. H.**  
Geohydrology, Aqueous Geochemistry, and Thermal Regime of the Soda Lakes and Upas Hogback Geothermal Systems, Churchill County, Nevada, W85-03898 1808 2F

**WELCH, C. S.**  
Dredge Induced Turbidity Plume Model, W85-07078 1812 6G

**WELCH, E. B.**  
Chemical Content of Snow and Effect of Melting on Cascade Mountain Lakes, W85-02329 1805 5B

**WELCH, R.**  
Photogrammetric Technique for Measuring Soil Erosion, W85-01323 1803 7B

**WELCH, R. P.**  
Applicability of the Fluorescein Diacetate Method of Detecting Active Bacteria in Freshwater, W85-03306 1807 5A

**WELDER, G. E.**  
Availability of Hydrologic Data in San Juan County, New Mexico, W85-03961 1808 2E

Data for Ground-Water Studies of the San Juan Basin, New Mexico (1982-83), W85-02034 1804 7C

**WELLER, E. C.**  
Better Rationale for Wetland Management, W85-02295 1805 2L

**WELLER, J. A.**  
Experimental Study of the Structure of a Freshwater-Saltwater Interfacial Mixing (Etude Experimental du Melange a l'interface Eau-Saumure), W85-00387 1801 2L

**WELLERSHAUS, S.**  
River Elbe: Processes Affecting the Behaviour of Metals and Organochlorines During Estuarine Mixing, W85-01836 1804 5B

**WELLINGTON, A. B.**  
Leaf Water Potentials, Fire and the Regeneration of Mallee Eucalypts in Semi-Arid, South-Eastern Australia, W85-03512 1807 2I

**WELLMAN, J. D.**  
Priorities for River Recreation Management in the Southern Appalachians, W85-00545 1802 6A

**WELLMAN, P.**  
Surging of Fisher Glacier, Eastern Antarctica: Evidence from Geomorphology, W85-00671 1802 2C

**WELLS, J. D.**  
Effects of Urbanization on Physical Habitat for Trout in Streams, W85-00070 1801 6G

**WELLS, J. R.**  
Comparison of Heavy Metals in Aquatic Plants on Charity Island, Saginaw Bay, Lake Huron, U.S.A., with Plants along the Shoreline of Saginaw Bay, W85-06740 1812 5B

**WELIS, M. J. M.**  
Determination of Picloram in Soil and Water by Reversed-Phase Liquid Chromatography, W85-02204 1805 5A

**WELLS, P. G.**  
Zooplankton, W85-05587 1810 5C

**WELLS, S. A.**  
Field Measurements on Side Arms of Lake Anna, V.A., W85-00729 1802 8B

**WELSTED, J.**  
Garrison Diversion Unit - An Update, W85-04574 1809 4A

**WEN, C.-G.**  
Effect of Salinity on Reaeration Coefficient of Receiving Waters, W85-01398 1803 2L

**WENDLAND, W. M.**  
Some Statistics of Instantaneous Precipitation, W85-03850 1808 2B

**WENDT, C. W.**  
Modification of Cotton Water Relations and Growth with Mepiquat Chloride, W85-03357 1807 3F

**WENDT, R. C.**  
Estimating Labile and Dissolved Inorganic Phosphate Concentrations in Surface Runoff, W85-03860 1808 5B

**WENDT, R. H.**  
Soil and Water Losses as Affected by Tillage and Manure Application, W85-02323 1805 2J

**WENDT, R. H.**  
Impact of Detergent Phosphorus Bans on Receiving Water Quality, W85-00558 1802 5C

**WENG, L.-D.**  
Chemical Derivatization Analysis of Pesticide Residues. IX. Analysis of Phenol and 21 Chlorinated Phenols in Natural Waters by Formation of Pentfluorobenzyl Ether Derivatives, W85-05471 1810 5A

Chemical Derivatization Analysis of Pesticide Residues. VIII. Analysis of 15 Chlorophenols in Natural Water by In Situ Acetylation, W85-02113 1804 5A

**WENNER, A. M.**  
Abnormal Reproduction of the Sand Crab Emerita analoga in the Vicinity of a Nuclear Generating Station in Southern California, W85-01365 1803 5C

**WENTWORTH, B. B.**  
Isolation of Legionella Species from Drinking Water, W85-02941 1806 5B

**WENZEL, H. G. JR.**  
Evaluation of Urban Design Storm Sensitivity, W85-01693 1804 2B

**WERK, K. S.**  
Field Water Relations of Sonoran Desert Annals, W85-02817 1806 2I

**WERNECKE, G.**  
Relationship of Water Volume and Water Quality Parameters (Zum Zusammenhang von Parametern der Wassermengen und Wasserbeschaffenheit), W85-06662 1812 5B

**WERNECKE, R.**  
Execution of Socialist Business Management in the Continuation of the Colbitz Movement (Die Durchsetzung der sozialistischen Betriebswirtschaft in Fortfuehrung der Colbitzer Bewegung), W85-01876 1804 5F

**WERNER, J.**  
Calculation of Evaporation for Inland Lakes Using Monthly Mean Values of Meteorological Parameters, Based on Measured Water Temperatures (Zur Verdunstungsberechnung fur Binnenseen aus Monatsmittelwerten meteorologischer Parameter bei gemessener Wassertemperatur), W85-00899 1802 2D

**WERNER, M. D.**  
Consequences of Oil Pollution on the Decomposition of Vascular Plant Litter in Freshwater Lakes: Part 2: Nutrient Exchange between Litter and the Environment, W85-00681 1802 5C

Responses of Model Freshwater Ecosystems to Crude Oil, W85-06219 1812 5C

**WERUSCHEK, H.**  
Data Bank for Waterworks and Facilities - Goals and Problem-solving Concept (Datenbank Wasserwerke und Anlagen - Aufgaben und Lösungskonzeption), W85-01969 1804 5F

**WERVY, J.**  
Comparative Study of Four Automatic Irrigation Devices Applied to the Trickle Irrigation of Maize (Etude Comparative de Quatre Dispositifs d'Irrigation Automatique: Application au maïs Irrigé en Localisé), W85-01061 1802 3F

**WESCHE, T. A.**  
Snowy Range Observatory: An Update and Review, W85-00861 1802 7C

**WESSELING, J.**  
Influence of Seepage on the Depth of Water Tables in Drainage, W85-02490 1805 4B

**WESSELING, J. G.**  
Influence of Seepage on the Depth of Water Tables in Drainage, W85-02490 1805 4B

**WESSELING, J. W.**  
Coupling of Groundwater and Open-Channel Flow, W85-01615 1803 2A

**WEST, J. R.**  
Evaluation of a Moving-Co-ordinate System Model of Salinity Intrusion into the Mersey Estuary, W85-04528 1809 2L

Note on Flow Structure in the Great Ouse Estuary, W85-03107 1806 2L

Note on the Prediction of Dissolved Oxygen Concentration in Estuaries, W85-04529 1809 2L

## AUTHOR INDEX

**WHITE, E.**

Note on Turbulent Perturbations of Salinity in a Partially Mixed Estuary, W85-05689 1810 2L

**WEST, P. A.**  
Influence of Water Temperature, Salinity, and pH on Survival and Growth of Toxigenic *Vibrio cholerae* Serovar O1 Associated with Live Copropods in Laboratory Microcosms, W85-02601 1805 5B

Numerical Taxonomy of Phenanthrene-Degrading Bacteria Isolated from the Chesapeake Bay, W85-03433 1807 5B

**WESTALL, F. R.**  
Application of Wastewater to Wetlands, W85-00079 1801 5D

**WESTALL, J. C.**  
Influence of pH and Ionic Strength on the Aqueous-Nonaqueous Distribution of Chlorinated Phenols, W85-04803 1809 5B

**WESTERDAHL, H. E.**  
Determination of Chemical Threshold Concentrations Using 2,4-D to Control Selected Aquatic Macrophytes: A Pilot Study to Evaluate a Laboratory System, W85-06917 1812 4A

Evaluation of Techniques to Estimate Annual Water Quality Loadings to Reservoirs, W85-06908 1812 5B

Field Evaluation of Two Endothall Formulations for Managing Hydrilla in Gatun Lake, Panama, W85-06900 1812 4A

**WESTERHOFF, G. P.**  
Privatization Needs the Professional Approach, W85-04954 1809 6A

**WESTERMAN, G. S.**  
Time of Travel and Dispersion Study in the Androscoggin River Basin, Maine, W85-03911 1808 2E

**WESTERMAN, P. W.**  
General Guidelines for Land Treatment of Sludge, W85-00081 1801 5D

General Guidelines for Land Treatment of Wastewater, W85-00083 1801 5D

Subsurface Drainage Water Quality from Land Application of Swine Lagoon Effluent, W85-01196 1803 5E

Swine Lagoon Effluent Applied to 'Coastal' Bermudagrass: II. Effects on Soil, W85-06612 1812 5D

Swine Lagoon Effluent Applied to 'Coastal' Bermudagrass: III. Irrigation and Rainfall Runoff, W85-06613 1812 5D

**WESTLAKE, D. W.**  
Microorganisms and the Degradation of Oil Under Northern Marine Conditions, W85-05585 1810 5B

**WESTON, S. A.**  
Observed Fluxes of Water, Salt and Suspended Sediment in a Partly Mixed Estuary, W85-06852 1812 2L

**WESTRICK, J. J.**  
Groundwater Supply Survey, W85-00702 1802 5F

**WESTSTRATE, F.**  
Spread of Pollutants from Harbour Sludge Deposits, W85-00572 1802 5E

**WETHERALD, R. T.**  
Effect of Soil Moisture on the Short-Term Climate and Hydrology Change - A Numerical Experiment, W85-01335 1803 8G

**WETZEL, A.**  
Microbiological Examination of a Two-Stage Wastewater Treatment Plant, I. Communication: Qualitative and Quantitative Examination of Aerobic and Facultatively Anaerobic Chemo-heterotrophic Bacterial Populations (Mikrobiologische Untersuchungen einer zweistufigen Adsorptions-Bleibungsanlage, I. Mitteilung: Qualitative und quantitative Erfassung der aeroben und fakultativ anaeroben chemo-heterotrophen Bakterienpopulationen), W85-02737 1806 5D

**WETZEL, P. J.**  
Determining Soil Moisture from Geosynchronous Satellite Infrared Data: A Feasibility Study, W85-01152 1803 2G

Rain Estimation from Satellites: An Examination of the Griffith-Woodley Technique, W85-01041 1802 2B

**WETZEL, R. G.**  
Effects of Bryophytes on Succession from Alkaline Marsh to Sphagnum Bog, W85-00088 1801 2H

Molecular Weight Fractionation of Dissolved Organic Nitrogen and Carbon Compounds from Two Lakes of Differing Trophic Status, W85-03229 1807 5B

Photosynthesis of Submersed Macrophytes in Acidified Lakes. I. Carbon Fluxes and Recycling of CO<sub>2</sub> in *Juncus bulbosus* L., W85-02794 1806 2H

Pyrolysis Mass Spectrometry of Some Scirpus Species and Their Decomposition Products, W85-01591 1803 2H

**WETZLER, T. F.**  
Leavenworth, Washington Case: Environmental Concerns with a Water Treatment Plant Failure, W85-02723 1806 5B

**WEYER, K. U.**  
Program HVRLV1 - Interactive Determination of Horizontal Permeabilities within Uniform Soils from Field Tests Using Hvorslev's Formulas, W85-00312 1801 2G

**WHALEN, S. C.**  
Influence of Temperature and Light on Rates of Inorganic Nitrogen Transport by Algae in an Arctic Lake, W85-03000 1806 2H

**WARFEE, J. R.**  
Growth of *Cladophora glomerata* in a River Receiving Sewage Effluent, W85-01723 1804 5C

**WARTON JR, R. A.**  
Thickness of Ice on Perennially Frozen Lakes, W85-04883 1809 2C

**WEATHER, H. S.**  
Hydrograph Sensitivity to Storm Kinematics, W85-05797 1810 2B

Use of Surface Resistance-Soil Moisture Relationships in Soil Water Budget Models, W85-01060 1802 2D

**WHEATLEY, W. B.**  
Bactericidal Properties of a New Water Disinfectant, W85-05511 1810 5F

**WHEATON, F. W.**  
Blue Crab Processing Plant Effluent Treatment, W85-01741 1804 5D

**WHEELER, J. C.**  
Difference Between the Potentiometric Surfaces of the Magothy Aquifer of September 1975 Differed from the Potentiometric Surface of September 1981 in Southern Maryland, W85-03931 1808 2F

**WHEELER, R. A.**  
Controlling Sewage Treatment Plant Odours, W85-04769 1809 5D

**WHEELER, R. L.**  
Does Your Water System Have Hydroelectric Generating Potential, W85-05488 1810 6B

**WHEELER, W. E.**  
Duck Breeding Ecology and Harvest Characteristics on Grand River Marsh Wildlife Area, W85-06903 1812 2H

**WHELAN, J. B.**  
Biological and Economic Impact of Stream Alteration in the Virginia Piedmont, W85-06956 1812 6G

**WHIGHAM, D.**  
Ecological Comparison of 6 Bog Sites in Anne Arundel County, Maryland, W85-05334 1810 6G

Effect of Three Marsh Management Techniques on the Ecology of Irregularly Flooded Chesapeake Bay Wetlands: Vegetation and Water Quality Studies, Parts I and II, W85-05347 1810 4A

**WHISENANT, S. G.**  
Soil Water and Temperature Response to Prescribed Burning, W85-04071 1808 2G

**WHITALL, W. B.**  
Delaware River Basin, Drought Management, W85-01121 1803 4A

**WHITBY, G. E.**  
Ultraviolet Disinfection of Secondary Effluent, W85-01654 1804 5D

**WHITE, A. F.**  
Groundwater Contamination From an Inactive Uranium Mill Tailings Pile: I. Application of a Chemical Mixing Model, W85-03575 1807 5B

**WHITE, D. H.**  
Bird Use and Heavy Metal Accumulation in Waterbirds at Dredge Disposal Impoundments, Corpus Christi, Texas, W85-04480 1809 5B

Presence and Biomagnification of Organochlorine Chemical Residues in Oxbow Lakes of Northeastern Louisiana, W85-02191 1805 5B

**WHITE, D. S.**  
Distribution of Oligochaetes in Lake Michigan and Comments on Their Use as Indices of Pollution, W85-06866 1812 5A

Dual Radiotracer Measurement of Zoobenthos-Mediated Solute and Particle Transport in Freshwater Sediments, W85-02964 1806 2J

**WHITE, D. W.**  
Evaluation of Membrane-Type Materials for Streambank Erosion Protection, W85-06979 1812 4D

**WHITE, E.**  
Chemical and Radiotracer Measurements of Phosphorus Uptake by Lake Plankton, W85-00887 1802 2H

Lake Eutrophication in New Zealand - A Comparison with other Countries of the Organisation for Economic Co-operation and Development, W85-00806 1802 2H

## AUTHOR INDEX

**WHITE, E. L.**

**WHITE, E. L.**  
Karst Landforms and Drainage Basin Evolution  
in the Obey River Basin, North-Central Tennessee,  
U.S.A.,  
W85-00005 1801 2F

**WHITE, G. F.**  
Survey of Sodium Dodecyl Sulphate (SDS) Resistance and Alkylsulphatase Production in Bacteria from Clean and Polluted River Sites,  
W85-05848 1811 5C

**WHITE, J.**  
Biological Treatment of High-Strength Coke-Plant Wastewater,  
W85-05440 1810 5D

**WHITE, J. G.**  
Savings Up, Headaches Down Due to Satellite-Aided Scheduling,  
W85-01459 1803 3F

**WHITE, J. W. C.**  
D/H Ratios of Sap in Trees: Implications for Water Sources and Tree Ring D/H Ratios,  
W85-04758 1809 2I

**WHITE, K. D.**  
Metal Distribution and Contamination in Sediments,  
W85-06019 1811 5B

Statistical Comparison of Heavy Metal Concentrations in Various Louisiana Sediments,  
W85-06289 1812 5B

**WHITE, K. L.**  
Toxicology of Organic Drinking Water Contaminants: Trichloromethane, Bromodichloromethane, Dibromochloromethane and Tribromomethane,  
W85-01211 1803 5C

**WHITE, R. B.**  
Control of Ground Water Contamination at an Active Uranium Mill,  
W85-06833 1812 5G

**WHITE, R. E.**  
Availability to Plants of Phosphate in Sludges Precipitated from the Effluent from Sewage Treatment,  
W85-04597 1809 5E

Modelling Water Flow through Undisturbed Soil Cores Using a Transfer Function Model Derived from 3HOH and Cl transport,  
W85-01326 1803 2G

**WHITE, R. J.**  
Effects of Urbanization on Physical Habitat for Trout in Streams,  
W85-00070 1801 6G

**WHITE, R. W. G.**  
Influence of a Metal-Contaminated Tributary on the Invertebrate Drift Fauna of the King River (Tasmania, Australia),  
W85-06790 1812 5C

**WHITE-REINER, J.**  
Aquatic Ecology of the New Jersey Pinelands,  
W85-00814 1802 6G

**WHITE, S.**  
Increased Diversion at Chicago: Initial Assessment,  
W85-01580 1803 6B

**WHITE, W. B.**  
Karst Landforms and Drainage Basin Evolution in the Obey River Basin, North-Central Tennessee,  
U.S.A.,  
W85-00005 1801 2F

**WHITE, W. R.**  
Health and Amenity Aspects of Surface Waters,  
W85-04457 1809 5G

Potential Sites of Geosmin Production by Streptomyces in and around Reservoirs,  
W85-06181 1812 5B

**WHITEHEAD, P. G.**  
Modeling Algal Behaviour in the River Thames,  
W85-01720 1804 5G

Modelling Nitrate and Algal Behaviour in the River Thames,  
W85-01434 1803 5G

On-Line Monitoring, Data Management and Forecasting System for the Bedford Ouse River Basin,  
W85-01408 1803 7B

**WHITEHOUSE, I. E.**  
Spatial Variability of Low Flows across a Portion of the Central Southern Alps, New Zealand,  
W85-02556 1805 2E

**WHITEHOUSE, J. W.**  
Studies of the Halogenation of Dissolved Organic Material During the Chlorination of Saline Cooling Waters, the Model Compounds Resorcinol Diacetate and Resorcinol Dimethyl Ether,  
W85-04979 1810 5F

**WHITEHURST, D. K.**  
Striped Bass Management in Lakes with Emphasis on Management Problems,  
W85-06402 1812 2H

**WHITELEY, H. R.**  
Effects of Land Drainage on Stream Flow,  
W85-04583 1809 4C

**WHITEMAN, K. L.**  
Occurrence, Quality, and Use of Ground Water in Orcas, San Juan, Lopez, and Shaw Islands, San Juan County, Washington,  
W85-02043 1804 7C

**WHITESIDE, L. S.**  
Uranium Geochemistry in Groundwater from Tertiary Sediments,  
W85-04371 1808 2K

**WHITESIDES, D. V.**  
Problems of Rising Ground-Water Levels in Urban Areas with Special Reference to the Louisville, Kentucky Area,  
W85-00027 1801 4B

Water Resources Data, Kentucky, Water Year 1982,  
W85-01923 1804 2E

**WHITFIELD, M.**  
Statistical Analysis of Estuarine Profiles: II Application to Arsenic in the Tamar Estuary (S.W. England),  
W85-01914 1804 5B

**WHITFIELD, P. H.**  
Intervention Analysis of Water Quality Records,  
W85-03131 1806 7B

Trends in pH, Calcium, and Sulfate of Rivers in Atlantic Canada,  
W85-01589 1803 5C

**WHITICAR, M. J.**  
Carbon and Hydrogen Isotopic Composition of Bacterial Methane in a Shallow Freshwater Lake,  
W85-02786 1806 2H

**WHITING, J. M.**  
Effect of Groundwater Inflow on Evaporation from a Saline Lake,  
W85-01043 1802 2H

**WHITLOCK, J. L.**  
Biological Treatment of Cyanidation Wastewaters,  
W85-05417 1810 5D

**WHITLOW, S. I.**  
Silver Complexation in River Waters of Central New York,  
W85-07120 1812 5A

**WHITMAN, R. L.**  
Availability of Dissolved Oxygen in Interstitial Waters of a Sandy Creek,  
W85-02103 1804 2E

**WHITMORE, T. J.**  
Deepwater Sediments and Trophic Conditions in Florida Lakes,  
W85-02099 1804 2H

**WHITNEY, F. A.**  
Copper Effect on Dynamics of Organic Materials in Marine Controlled Ecosystems,  
W85-00872 1802 5C

**WHITTAKER, C.**  
Biofilm Fouling of RO Membranes - Its Nature and Effect on Treatment of Water for Reuse,  
W85-00712 1802 5D

**WHITTAKER, K. F.**  
Pilot Scale Investigations on the Removal of Volatile Organics and Phthalates from Electronics Manufacturing Wastewater,  
W85-05442 1810 5D

**WHITTEN, C. B.**  
Engineering Geology and Geomorphology of Streambank Erosion; Report 2: Yazoo River Basin Uplands, Mississippi,  
W85-06996 1812 2J

Geological and Seismological Investigations at Ririe Dam, Idaho,  
W85-06966 1812 8E

**WHITTON, B. A.**  
Aquatic Cryptograms of Natural Acid Springs Enriched with Heavy Metals: the Kootenay Paint Pots, British Columbia,  
W85-00402 1801 2H

Heavy Metals in Water, Sediments and Invertebrates from a Metal-Contaminated River Free of Organic Pollution,  
W85-00988 1802 5C

Water Chemistry and Phosphatase Activity of the Blue-Green Alga Rivularia in Upper Teesdale Streams,  
W85-02283 1805 2H

**WIAKOWSKI, K.**  
Analysis of Ciliata from Polluted Sector of the River Drwinka on the Basis of Binary Data,  
W85-00223 1801 2

**WICKRAMANAYAKE, G. B.**  
Inactivation of Giardia lamblia Cysts with Ozone,  
W85-02937 1806 5F

Inactivation of Naegleria and Giardia Cysts in Water by Ozonation,  
W85-02580 1805 5F

**WIDAYAT,**  
Study on Organic Pollution Parameters for Dyes and Dyeing Auxiliaries,  
W85-03746 1807 5C

**WIDDOWS, J.**  
Responses of the Mussel *Mytilus edulis* to Copper and Phenanthrene: Interactive Effects,  
W85-05886 1811 5C

**WIDMANN, R.**  
Design Bases of the Arch Dam 'Zillergrundl' (Grundlagen für den Entwurf der Bogenstaumauer Zillergrundl),  
W85-03258 1807 8A

**WIDMER, C. C.**  
Lake Trout (*Salvelinus namaycush*) Spawning Habitat in Seneca Lake, New York,  
W85-00924 1802 2H

## AUTHOR INDEX

WILKEN, R.-D.

<b>WIEDER, R. K.</b>	
Influence of Wetlands and Coal Mining on Stream Water Chemistry, W85-04011	1808 5B
<b>WIEDERHOLM, T.</b>	
Incidence of Deformed Chironomid Larvae (Diptera: Chironomidae) in Swedish Lakes, W85-01021	1802 5C
<b>WIEDERKEHR, P.</b>	
Problem of Acid Precipitation in Switzerland (Le Probleme des Precipitations Acides en Suisse), W85-01266	1803 5C
<b>WIEGLEB, G.</b>	
Study of Habitat Conditions of the Macrophytic Vegetation in Selected River Systems in Western Lower Saxony (Federal Republic of Germany), W85-01887	1804 2H
<b>WIEGLEB, K.</b>	
Observations from the Test Operation of an Ion-exchange Facility for Nitrate Removal in Drinking-water Treatment (Erfahrungen aus dem Erprobungsbetrieb einer Ionenaustauscheranlage zur Nitratelimination in der Trinkwasseraufbereitung), W85-01974	1804 5F
<b>WIELER, J. G.</b>	
Radar Determination of Snowfall Rate and Accumulation, W85-06428	1812 2B
<b>WIELGOSZ, S.</b>	
Structure of Benthofauna Aggregations in the Lotic Environment of the River Wel, Mazurian Lake District, W85-00225	1801 2H
<b>WIENER, J. G.</b>	
Comparative Analyses of Fish Populations in Naturally Acidic and Circumneutral Lakes in Northern Wisconsin, W85-05132	1810 5C
Species Composition of Fish Communities in Northern Wisconsin Lakes: Relation to pH, W85-04206	1808 5C
<b>WIENS, A. P.</b>	
Effect of Impoundment and River Diversion on Profundal Macrofaunas of Southern Indian Lake, Manitoba, W85-00638	1802 5G
<b>WIERENGA, P. J.</b>	
Equivalence of Two Conceptual Models for Describing Ion Exchange During Transport Through an Aggregated Oxisol, W85-02368	1805 2G
<b>WIERICH, P.</b>	
Metabolites and Biodegradation Pathways of Fatty Alcohol Ethoxylates in Microbial Biocenoses of Sewage Treatment Plants, W85-05510	1810 5D
<b>WIERSMA, G. B.</b>	
Use of Simple Kinetic Models to Help Design Environmental Monitoring Systems, W85-05102	1810 5A
<b>WIESENFELD, J.</b>	
Relationships between the Pollutants in the Sediments and in the Water of the Delaware and Raritan Canal, W85-01413	1803 5B
<b>WIESER, R.</b>	
Modern Small Waterturbine/Tubecasing-Pump (Eine Moderne Klein-Wasserturbine bzw. Rohrgehäusepumpe), W85-03441	1807 8C
<b>WIGGERT, D. C.</b>	
Field Comparison of Three Mass Transport Models, W85-04393	1808 5B
<b>WIGGLESWORTH, A. F.</b>	
Water Utility in the Nuclear Age, W85-04773	1809 5B
<b>WIGINGTON, P. J. JR.</b>	
Stage-Activated Triggering Device for Automatic Pumping Samplers, W85-01380	1803 7B
<b>WIGLEY, T. M. L.</b>	
Influences of Precipitation Changes and Direct CO <sub>2</sub> Effects on Streamflow, W85-05855	1811 2A
<b>WIJAYARATNE, R. D.</b>	
Sorption of Polycyclic Aromatic Hydrocarbons by Natural Estuarine Colloids, W85-01349	1803 5B
<b>WIJEYAWICKREMA, C.</b>	
Irrigation and Groundwater Depletion in Caddo County, Oklahoma, W85-06234	1812 4B
Local Opposition to the Transfer of Water Supplies; An Oklahoma Case Study, W85-03138	1806 6D
<b>WIKRAMARATNA, R. S.</b>	
Analytical Solution for the Effects of Abstraction from a Multiple-Layered Confined Aquifer with No Cross Flow, W85-02363	1805 2F
Modelling Approach to Estimating Aquifer Recharge on a Regional Scale, W85-02830	1806 2F
New Type of Curve Method for the Analysis of Pumping Tests in Large-Diameter Wells, W85-05505	1810 2F
<b>WILBUR, C. K.</b>	
Interaction of Groundwater and Basalt Fissure Surfaces and Its Effect on the Migration of Actinides, W85-06774	1812 5B
<b>WILCOCK, D. N.</b>	
Infiltration Measurements in a Small Lowland Catchment, W85-03090	1806 2E
<b>WILCOX, D.</b>	
Waterlogging of Containerized Rabbiteye Blueberries in Florida, W85-06059	1811 2I
<b>WILCOX, D. A.</b>	
Effects of Deicing Salts on Water Chemistry and Vegetation in Pinhook Bog, Indiana Dunes National Lakeshore, W85-05123	1810 5C
Effects of NaCl Deicing Salts on Sphagnum recurvus P. Beauv., W85-03218	1807 5C
<b>WILCOX, G.</b>	
Effect of Phosphorus Additions in Enclosures on the Phytoplankton and Zooplankton of an Acid Lake, W85-01454	1803 5C
Effect of Phosphorus and Nitrogen Addition on the Algal Biomass and Species Composition of an Acidic Lake, W85-00762	1802 5C
<b>WILD, J.</b>	
Survey of Trade Effluent Sampling for Charging in the Severn-Trent Water Authority, W85-03886	1808 6C
<b>WILDA, T. J.</b>	
Production of Five Genera of Chironomidae (Diptera) in Lake Norman, a North Carolina Reservoir, W85-01010	1802 5C
<b>WILDERER, P. A.</b>	
Design and Performance of Egg-Shaped Digesters for Combined Sludge and Industrial Wastewater Treatment, W85-05550	1810 5D
Optimization and Control of the Activated Sludge Treatment Process by Quasicontinuous Operation: Concept, Strategy and Results, W85-05286	1810 5D
<b>WILDISH, D. J.</b>	
Avoidance of Suspended Sediments by Smelt as Determined by a New 'Single Fish' Behavioral Bioassay, W85-07155	1812 5C
Importance to Mussels of the Benthic Boundary Layer, W85-03600	1807 2H
<b>WILDMAN, R. C.</b>	
Statistical Procedures for Applying Hilsenhoff's Biotic Index, W85-02245	1805 5A
<b>WILDMAN, W. E.</b>	
Aerial Photography for Conservation Information and Education, W85-03353	1807 7B
Deep Cultivation and Gypsum as Potential Solutions to Slow Water Penetration, W85-01093	1802 3F
<b>WILDUNG, R. E.</b>	
Subsurface Transport with Emphasis on Hydrology: Research Needs, W85-04217	1808 5B
<b>WILES, D. R.</b>	
Thorium 230 Determination in Polluted Lake Water - A Study of Interferences, W85-02927	1806 5A
<b>WILHARTITZ, P.</b>	
Electron-Microanalytical Investigations of the Interfacial Corrosion in Concrete, W85-01129	1803 8F
<b>WILHELM, W. W.</b>	
Soil Physical Characteristics of Reduced Tillage in a Wheat-Fallow System, W85-06078	1811 2G
<b>WILHITE, D. A.</b>	
Determining Drought Frequency and Intensity on the Basis of Plant Response: Wild Hay in the Sand Hills of Nebraska, U.S.A., W85-01064	1802 2B
Planning for Drought: The Role of State Government, W85-06236	1812 6A
<b>WILHM, J.</b>	
Use of Nephelometric Turbidity to Calculate Carlson's Trophic State Index in Keystone Lake Oklahoma, W85-02248	1805 2H
<b>WILKE, C. L.</b>	
Effects of the Black River (Cape, South Africa) on the Distribution and Survival of Marine Psammofauna, W85-05861	1811 2L
<b>WILKE, R. J.</b>	
Behavior of Iron, Manganese and Silicon in the Peconic River Estuary, New York, W85-00663	1802 2L
<b>WILKEN, R.-D.</b>	
Determination of Cl-, NO <sub>3</sub> - and SO <sub>4</sub> <sup>2-</sup> in Pore Waters of Sediments, W85-06756	1812 2K

## AUTHOR INDEX

### **WILKES, D. R.**

<b>WILKES, D. R.</b>				
Flocculation Model Testing: Particle Sizes in a Softening Plant,				
W85-01908	1804	5F		
<b>WILKES, R.</b>				
Measurements and Control of Dissolved Oxygen in Activated Sludge Processes,				
W85-02487	1805	5D		
<b>WILKINSON, D. L.</b>				
Purging of Saline Wedges from Ocean Outfalls,				
W85-03791	1808	2L		
<b>WILLARDSON, L. S.</b>				
Hydraulic Ram Use for Sprinkle Irrigation,				
W85-06088	1811	3F		
Parabolic Canal Design and Analysis,				
W85-01515	1803	8A		
Residential Lawn Irrigation Management,				
W85-01195	1803	3F		
<b>WILCOCKS, R. J.</b>				
Sewage Plant Provides Energy for District Heating System,				
W85-04770	1809	5D		
<b>WILLEMS, K. A.</b>				
Influence of Pollution on the Harpacticoid Copepods of Two North Sea Estuaries,				
W85-00795	1802	5C		
<b>WILLIAMS, B. R. H.</b>				
Trade Effluent Control - An Industrial Viewpoint,				
W85-03018	1806	5D		
<b>WILLIAMS, D. E.</b>				
Bactericidal Properties of a New Water Disinfectant,				
W85-05511	1810	5F		
<b>WILLIAMS, D. H.</b>				
Equalization/Neutralization Modeling An Application to Fluoride Removal,				
W85-02914	1806	5D		
<b>WILLIAMS, D. T.</b>				
Problems in Collection of Representative Samples for Determination of Tributoxethyl Phosphate in Potable Water,				
W85-00164	1801	5A		
<b>WILLIAMS, E. E.</b>				
Behavioural Bioassay for Impaired Sea-Water Quality Using the Plantigrades of the Common Mussel <i>Mytilus edulis</i> L.: The Effect of pH on Copper Speciation and Toxicity,				
W85-00879	1802	5C		
<b>WILLIAMS, E. H.</b>				
Toxicity of the Herbicides Endothall and Diquat to Benthic Crustacea,				
W85-02778	1806	5C		
<b>WILLIAMS, G. M.</b>				
Controls on Contaminant Migration at the Villa Farm Lagoons,				
W85-03770	1808	5D		
<b>WILLIAMS, J. B.</b>				
Determination of Optimum Minimum Flow from a Dam by Using Energy Analysis,				
W85-02297	1805	4A		
<b>WILLIAMS, J. R.</b>				
Modeling Approach to Determining the Relationship between Erosion and Soil Productivity,				
W85-03374	1807	2J		
<b>WILLIAMS, J. W.</b>				
Bacterial Removal of Mercury from Sewage,				
W85-04114	1808	5D		
<b>WILLIAMS, K. A.</b>				
Studies on the Acute Toxicity of Pollutants to Freshwater Macroinvertebrates; 1. Cadmium,				
W85-06399	1812	5C		
Studies on the Acute Toxicity of Pollutants to Freshwater Macroinvertebrates; 2. Phenol,				
W85-06393	1812	5C		
<b>WILLIAMS, K. L.</b>				
Speciation of Iron, Copper and Zinc in the Hawkesbury River,				
W85-00786	1802	5A		
<b>WILLIAMS, L.</b>				
Determination of Chemical Threshold Concentrations Using 2,4-D to Control Selected Aquatic Macrophytes: A Pilot Study to Evaluate a Laboratory System,				
W85-06917	1812	4A		
<b>WILLIAMS, L. R.</b>				
Earth Foundation Treatment at Jebba Dam Site,				
W85-01871	1804	8D		
<b>WILLIAMS, P. W.</b>				
Role of the Subcutaneous Zone in Karst Hydrology,				
W85-00004	1801	2F		
<b>WILLIAMS, R.</b>				
Portable Evaporimeter for Rapid Measurement of the Evaporation Rate of Water,				
W85-06199	1812	2D		
<b>WILLIAMS, R. E.</b>				
Conservation District Role in Nonpoint Pollution Control,				
W85-05948	1811	5G		
Statistical Identification of Hydraulic Connections Between the Surface of a Mountain and Internal Mineralized Sources,				
W85-00327	1801	2F		
<b>WILLIAMS, R. J.</b>				
Modelling Nitrate and Algal Behaviour in the River Thame,				
W85-01434	1803	5G		
<b>WILLIAMS, R. T.</b>				
Methane Production in Minnesota Peatlands,				
W85-02135	1804	2L		
<b>WILLIAMS, S. F.</b>				
Requirement of Beneficial Use as a Cause of Waste in Water Resource Development,				
W85-01247	1803	6E		
<b>WILLIAMS, S. J.</b>				
Geological Character and Mineral Resources of South Central Lake Erie,				
W85-06907	1812	2H		
<b>WILLIAMS, S. T.</b>				
Potential Sites of Geosmin Production by Streptomyces in and around Reservoirs,				
W85-06181	1812	5B		
<b>WILLIAMS, T. M.</b>				
Sediment Concentrations from Intensively Prepared Wetland Sites,				
W85-02112	1804	4C		
<b>WILLIAMS, W. D.</b>				
Chemical and Biological Features of Tasmanian Salt Lakes,				
W85-00791	1802	2H		
<b>WILLIAMSON, A. K.</b>				
Summary of Ground-Water Pumpage in the Central Valley, California, 1961-77,				
W85-00591	1802	4B		
<b>WILLIAMSON, K. J.</b>				
Copper and Cadmium Uptake by Estuarine Sedimentary Phases,				
W85-01122	1803	5B		
<b>WILLIAMSON, R. B.</b>				
Effect of Storms on Nitrification Rates in a Small Stream,				
W85-06730	1812	2K		
<b>WILSON, B. H.</b>				
Biotransformation of Trichloroethylene in Soil,				
W85-04267	1808	5B		
<b>WILSON, B. L.</b>				
Analysis of Aqueous Sediments for Heavy Metals,				
W85-01742	1804	5B		
<b>WILSON, B. N.</b>				
Hydrology and Sedimentology Watershed Model. Part I: Operational Format and Hydrologic Component,				
W85-04735	1809	2A		
Hydrology and Sedimentology Watershed Model. Part II: Sedimentology Component,				
W85-04736	1809	2A		
Modeling Sediment Detention Ponds Using Reactor Theory and Advection-Diffusion Concepts,				
W85-06506	1812	2J		
Sediment Detention Pond Model Using CSTRS Mixing Theory,				
W85-04731	1809	5E		
<b>WILSON, C. R.</b>				
Model for Investigating Mechanical Transport in Fracture Networks,				
W85-03163	1806	2F		
<b>WILSON, D. J.</b>				
Hexavalent Chromium Removal in a Foam Flootation Pilot Plant,				
W85-06842	1812	5D		

## AUTHOR INDEX

WITTNER, I.

**Kinetics of the Desorption of Ammonia from Water by Diffused Aeration, W85-03299** 1807 5D

**Migration of Pollutants in Groundwater. II. Adsorbable Pollutants and Numerical Dispersion Reduction, W85-06290** 1812 5B

**WILSON, D. M.**  
Concurrent Development of an Industrial Waste Pretreatment Program and Residual Solids Management Plan, W85-02572 1805 5D

**WILSON, F.**  
Treatment of Wool Scour Wastewater: Recent Trends in New Zealand, W85-05414 1810 5D

**WILSON, G. V.**  
Relationships among Oxygen Flux, Soil Water Tension, and Aeration Porosity in a Drying Soil Profile, W85-04956 1809 2G

**WILSON, J. L.**  
Sensitivity Analysis for Steady State Groundwater Flow Using Adjoint Operators, W85-05799 1810 2F

**WILSON, J. R.**  
Bermudagrass Grown with Municipal Wastewater, W85-00680 1802 3C

**WILSON, J. T.**  
Anaerobic Inhibition of Trace Organic Compound Removal During Rapid Infiltration of Wastewater, W85-03435 1807 5D

Biotransformation of Trichloroethylene in Soil, W85-04267 1808 5B

Determination of Microbial Cell Numbers in Subsurface Samples, W85-04636 1809 5A

Fate of Trace Organics During Rapid Infiltration of Primary Wastewater at Fort Devens, Massachusetts, W85-01730 1804 5D

Microbial Removal of Wastewater Organic Compounds as a Function of Input Concentration in Soil Columns, W85-03434 1807 5D

**WILSON, K. C.**  
Bowhouse Sewerage and Sewage Disposal Scheme of Fife Regional Council, W85-04508 1809 5D

**WILSON, L.**  
Aquifer Classification for the UIC Program: Prototype Studies in New Mexico, W85-03150 1806 2F

**WILSON, L. G.**  
Vadose Zone Monitoring Concepts for Hazardous Waste Sites, W85-00314 1801 5A

**WILSON, R. L.**  
Crossflow Membrane Technology and its Applications, W85-05506 1810 5D

**WILSON, R. S.**  
Monitoring of River Water Quality within the Great Ouse Basin Using the Chironomid Exuvial Analysis Technique, W85-04454 1809 5A

**WILSON, S. L.**  
Trace Metals in the Columbia River Estuary Following the 18 May 1980 Eruption of Mount St. Helens, W85-05056 1810 5B

**WILTSHERE, S. E.**  
Grouping Basins for Regional Flood Frequency Analysis, W85-05908 1811 2E

**WINDER, A. J. H.**  
Empingham Reservoir Project (Rutland Water), W85-06173 1811 8A

**WINDINGLAND, D.**  
Kinematic Shock: Sensitivity Analysis, W85-06037 1811 2E

**WINDOM, H. L.**  
Heavy Metals and Polycyclic Hydrocarbon Compounds in Benthic Organisms of the Upper Gulf of Thailand, W85-01484 1803 5B

Trace Metal Composition of and Accumulation Rates of Sediments in the Upper Gulf of Thailand, W85-02654 1805 5B

**WINGRICH, H.**  
Studies on Iron and Manganese Removal in a Groundwater Conductor (Untersuchungen zur Enteisenung und Entmanganung im Grundwasserleiter), W85-03527 1807 5F

**WINIATI, W.**  
Study on Organic Pollution Parameters for Dyes and Dyeing Auxiliaries, W85-03746 1807 5C

**WINKLER, E.**  
Problems of Water Volume Balance in the Spree River District Impacted by Mining Operations (Probleme der Wassermengenbilanz im Bergbaubeeinflussten Spreegebiet), W85-03515 1807 3B

**WINKLER, W.**  
DO-Process Models for Shallow Systems. Part 1: Ponds and Lakes, W85-06655 1812 2K

**WINNER, R. W.**  
Acute Toxicity of Copper to Three Life Stages of Chironomus tentans as Affected by Water Hardness-Alkalinity, W85-04946 1809 5C

Bioaccumulation and Toxicity of Copper as Affected by Interactions between Humic Acid and Water Hardness, W85-06732 1812 5B

Selenium Effects on Antennal Integrity and Chronic Copper Toxicity in Daphnia pulex (deGeer), W85-02970 1806 5C

Toxicity and Bioaccumulation of Cadmium and Copper as Affected by Humic Acid, W85-02380 1805 5C

**WINSTANLEY, D.**  
Africa in Drought - A Change of Climate, W85-07076 1812 2B

**WINTER, F. J.**  
On-Line Monitoring Data Replaces Analytical Data, W85-03332 1807 5G

**WINTER, J.**  
Hydrodynamic Pressures Acting Upon Hinged-Arc Gates, W85-06036 1811 8C

**WINTER, T. C.**  
Effect of Anisotropy and Groundwater System Geometry on Seepage Through Lakebeds; 1. Analog and Dimensional Analysis, W85-04275 1808 2F

Effect of Anisotropy and Groundwater System Geometry on Seepage Through Lakebeds; 2. Numerical Simulation Analysis, W85-04276 1808 2F

Modeling the Interrelationship of Groundwater and Surface Water, W85-05318 1810 2F

**WINTERBOURN, M. J.**  
Benthic Faunas of Forested Streams and Suggestions for Their Management, W85-03024 1806 2H

**WINTERS, J. L.**  
Twenty-Five Years of Phytoplankton on the West Fork and Main Stem of the White River: 1958-1982, W85-06849 1812 2H

**WINTERS, N. L.**  
Responses of Model Freshwater Ecosystems to Crude Oil, W85-06219 1812 5C

**WIRZING, G.**  
About the Remain of Cationic Surfactants in Waste Water. Reaction of Cationic Surfactants with Bentonite (Über den Verbleib von kationenaktiven Tensiden im Abwasser. Reaktion von kationenaktiven Tensiden mit Bentonit), W85-03413 1807 5D

**WISE, S. E.**  
Methodology for Overland and Instream Migration and Risk Assessment of Pesticides, W85-06989 1812 5B

**WISEMAN, S. W.**  
Sinking Losses of Phytoplankton in Closed Limnetic Systems, W85-02215 1805 2H

**WISER, E. H.**  
North Carolina Streamflow Synthesis and Reservoir Regulation Model, W85-05339 1810 2A

**WISNIEWSKI, R.**  
External and Internal Loading and Retention of Phosphorus in the R. Jorka Lakes (Masurian Lakeland, Poland) vs Their Trophic Status, W85-04556 1809 2H

**WISSELO, A. G.**  
Loosdrecht Lakes Restoration Project: Sediment Phosphorus Distribution and Release from the Sediments, W85-04546 1809 2K

**WISSMAR, R. C.**  
delta<sup>13</sup>C Evidence of the Origins and Fates of Organic Carbon in Estuarine and Nearshore Food Webs, W85-06877 1812 2L

**WITHERSPOON, P. A.**  
Model for Investigating Mechanical Transport in Fracture Networks, W85-03163 1806 2F

Theory of the Development of Geothermal Systems Charges by Vertical Faults, W85-00177 1801 2F

**WITMAN, J. D.**  
Ecosystem Definition and Community Structure of the Macrofauna of the NEMP Monitoring Station at Pigeon Hill in the Gulf of Maine, W85-05580 1810 2L

**WITT, C. R.**  
Auxiliary Demineralization System for Liquid Radioactive Waste, W85-05266 1810 5D

**WITTKO, W.**  
Interaction between an Arch Dam and its Foundation (Wechselwirkung zwischen Staumauer und Untergrund), W85-03256 1807 8A

**WITTNER, I.**  
Detection of Elementary Sulphur in Freshwater Sediments, W85-02746 1806 5A

## AUTHOR INDEX

**WITTOCX, A.**

**WITTOCX, A.**  
Determination of Aliphatic Aldehydes in Waters by High-Performance Liquid Chromatography, W85-07164 1812 5A

**WITZ, F. E.**  
Prediction of Economic Potential for Irrigation Using a Ground-Water Model, W85-00336 1801 4B

**WOBBER, F. J.**  
Status of Health and Environmental Research Relative to Solid Wastes from Coal Conversion, W85-04229 1808 5C

**WODKA, M. C.**  
Phosphorus Cycling in Ionically Polluted Onondaga Lake, New York, W85-05690 1810 5B

Scattering and Absorption of Light in Onondaga Lake, W85-03805 1808 2H

**WODZINSKA, B.**  
Dependence of Phytoplankton on Zooplankton in a Man-Made Lake, W85-05636 1810 2H

**WOESSNER, W. W.**  
Results of Seepage Meter and Mini-Piezometer Study, Lake Mead, Nevada, W85-02688 1805 2H

**WOESTE, F. E.**  
Probabilistic Modeling of Soil Loss from Surface Mined Regions, W85-06090 1811 2J

**WOJTAN, K.**  
Concentrations of Cadmium and Lead in the Body of Some Macrofauna Species from Five Streams of Southern Poland, W85-02509 1805 5C

**WOLANSKI, E.**  
Mixing of Burdekin River Flood Waters in the Great Barrier Reef, W85-00776 1802 5B

**WOLAVER, T. G.**  
Nitrogen and Phosphorus Concentrations within North Inlet, South Carolina - Speculation as to Sources and Sinks, W85-02657 1805 2L

Role of Tall and Medium Spartina alterniflora Zones in the Processing of Nutrients in Tidal Water, W85-02287 1805 2H

**WOLD, H.**  
Subglacial Hydrology and Sediment Transport at Bondhusbrean, Southwest Norway, W85-05733 1810 2C

**WOLDE-TINSAE, A. M.**  
Effects of Predrilling and Layered Soils on Piles, W85-04383 1808 8D

**WOLF, D. C.**  
Nutrient Losses in Runoff from Conventional and No-Till Corn Watersheds, W85-011290 1803 5B

**WOLF, E. G.**  
Primary Production in Rattlesnake Springs, a Cold Desert Spring-Stream, W85-02547 1805 2E

**WOLF, M.**  
Effect of Urbanization in an Arid Region: Formation of a Perched Water Table That Causes Environmental Damages, W85-02862 1806 2F

**WOLF, R. J.**  
Hydrogeologic and Water-Quality Characteristics of the Ironwood-Galesville Aquifer, Southeast Minnesota, W85-00028 1801 4B

**WOLF, U.**

Effects of Temporal Decomposition on Parameter Estimation for Hydrological Models (Der Einfluss der zeitlichen Untergliederung auf die Parameterschätzung in hydrologischen Modellen), W85-00898 1802 2A

**WOLFE, J. R.**  
AQAT: A Mobile Wastewater Treatability Assessment System, W85-05573 1810 5D

**WOLFE, M. L.**  
Tilled Soil Subsidence During Repeated Wetting, W85-03377 1807 2G

**WOLFE, N. L.**  
Effects of Sediment Sorption and Abiotic Hydrolases. I. Organophosphorothioate Esters, W85-06249 1812 5B

**WOLFE, R. L.**  
Effect of pH, Application Technique, and Chlorine-to-Nitrogen Ratio on Disinfectant Activity of Inorganic Chloramines with Pure Culture Bacteria, W85-02933 1806 5F

Inorganic Chloramines as Drinking Water Disinfectants: A Review, W85-00705 1802 5F

**WOLFF, E. W.**  
Flow Law for Ice in Polar Ice Sheets, W85-05735 1810 2C

**WOLFF, P. M.**  
Predicting Water Circulation in Delaware Bay and River: NOAA's New Approach, W85-03338 1807 2L

**WOLFORD, R.**  
Effect of Temperature, pH, and Oxygen Level on the Multiplication of Naturally Occurring *Legionella pneumophila* in Potable Water, W85-07128 1812 5B

**WOLIN, J. A.**  
Variations in *Melosira islandica* Valve Morphology in Lake Ontario Sediments Related to Eutrophication and Silica Depletion, W85-07072 1812 2H

**WOLINER, N. R.**  
Investigations of Leachate Contamination of Ground and Surface Waters at the Fresh Kills Landfill, New York City, W85-05369 1810 5B

**WOLMAN, A.**  
Water Resources Management: International Challenge and Opportunities, W85-03129 1806 6B

**WOLSKI, S.**  
Influence of Chlorine on the Susceptibility of Striped Bass (*Morone saxatilis*) to *Vibrio anguilarum*, W85-03001 1806 5C

**WOLT, J. D.**  
Assessment of the Residual Effects of Long-Term Spray Disposal of an Industrial Sludge, W85-05394 1810 5E

**WOLTEMATE, L.**  
Carbon and Hydrogen Isotopic Composition of Bacterial Methane in a Shallow Freshwater Lake, W85-02786 1806 2H

**WOLTER, K.**  
Influence of Low Concentrations of Cadmium, Copper and Zinc on Phytoplankton of Natural Water Samples, W85-02803 1806 5C

**WOLVERTON, B. C.**

Hybrid Wastewater Treatment System Using Anaerobic Microorganisms and Reed (*Phragmites communis*), W85-01604 1803 5D

**WONG, A.**  
Chlorinated Phenolics of Bleached Kraft Mill Origin; An Olfactory Evaluation, W85-00559 1802 5A

**WONG, C. S.**  
Copper Effect on Dynamics of Organic Materials in Marine Controlled Ecosystems, W85-00872 1802 5C

Effect of Wood Waste Dumping on Organic Matter in Seawater and Surficial Sediments of Alberni Inlet, British Columbia, W85-02533 1805 5C

**WONG, F. S.**  
Slope Reliability and Response Surface Method, W85-04384 1808 8D

**WONG, G. T. F.**  
Recent Vertical Accretion Rates at Blackwater Wildlife Refuge, W85-01809 1804 2L

**WONG, H. K. T.**  
Atmospheric Input of Heavy Metals Chronicled in Lake Sediments of the Algonquin Provincial Park, Ontario, Canada, W85-01104 1802 5B

**WONG, K.-C.**  
Observations of Wind-Induced, Subtidal Variability in the Delaware Estuary, W85-03409 1807 2L

**WONG, K. K.**  
Two-Phase Anaerobic Treatment Kinetics of Palm Oil Wastes, W85-07124 1812 5D

**WONG, K. V.**  
Heavy Metal Migration in Soil-Leachate Systems, W85-01868 1804 5B

Two-Dimensional Time-Dependent Simulation of Contaminant Transport from a Landfill, W85-02272 1805 5G

**WONG, L.**  
Commercial Mining Technique Offers a New Approach to Removing Heavy Metals from Sludges, W85-04767 1809 5D

**WONG, M. H.**  
Heavy Metals in *Ulva lactuca* Collected within Tolo Harbour, An Almost Landlocked Sea, W85-01762 1804 5B

Sewage Sludge for Cultivating Freshwater Algae and the Fate of Heavy Metal at Higher Trophic Organisms; IV. Heavy Metal Contents in Different Trophic Levels, W85-02237 1805 5E

**WONG, P. K.**  
Growth of *Enteromorpha linza* in Sewage Effluent and Sewage Effluent-Seawater Mixtures, W85-01475 1803 5D

**WONG, P. T. S.**  
Uptake and Accumulation of Inorganic Tin by a Freshwater Alga, *Ankistrodesmus falcatus*, W85-03598 1807 5C

**WONG, S.-F.**  
Centrifuge Model Tests on Bearing Capacity of Clay, W85-03813 1808 8D

**WONG, S. L.**  
Algal Assay Evaluation of Trace Contaminants in Surface Water Using the Nonionic Surfactant, Triton X-100, W85-06438 1812 5A

## AUTHOR INDEX

**WRENN, P.**

Estimating Urban Time of Concentration, W85-01557 1803 2E

Toxicity and Water Quality: A Bioassay Interpretation, W85-01162 1803 5C

**WONG, T. H. F.**  
Model of Flood Wave Speed-Discharge Characteristics of Rivers, W85-03994 1808 2E

**WONG, Y. T.**  
Sludge Recycling for Methane Fermentation Processing of Swine Wastewater, W85-05258 1810 5D

**WOO, M.-K.**  
Basal Ice in High Arctic Snowpacks, W85-00237 1801 2C

Regionalization and Prediction of Floods in the Fraser River Catchment, B.C., W85-05002 1810 2E

Wetting Front Advance and Freezing of Meltwater Within a Snow Cover; 1. Observations in the Canadian Arctic, W85-03991 1808 2C

Wetting Front Advance and Freezing of Meltwater Within a Snow Cover; 2. A Simulation Model, W85-03992 1808 2C

**WOOD, C. S.**  
Study of a Shallow Carp (*Cyprinus carpio L.*) Pond and its Relevance to Inland Fish Farming in Libyan Jamahiriya, W85-06486 1812 8I

**WOOD, D. A.**  
Planning for Drought: The Role of State Government, W85-06236 1812 6A

**WOOD, D. W.**  
Constraints to Managing Interstate Aquifer, W85-01577 1803 2F

**WOOD, E. F.**  
Appraisal of the Regional Flood Frequency Procedure in the UK Flood Studies Report, W85-05905 1811 2E

**WOOD, G. E.**  
Project Success: Sensitivity to Project Assumptions, 'The Medellin Case', W85-07000 1812 6A

**WOOD, K. N.**  
Carbon Treatment of Pesticide Wastewaters in Light of Best Available Technology Effluent Limitation Guidelines, W85-05267 1810 5D

**WOOD, K. V.**  
Factors Affecting Aquatic Macroinvertebrates Below a Fly Ash Pond Discharge, W85-04314 1808 5C

**WOOD, M. K.**  
Evaluation of the Hydrologic Soil Groups as Used in the SCS Runoff Method on Rangelands, W85-01384 1803 2G

**WOOD, R. B.**  
Seasonal and Comparative Aspects of Chemical Stratification in Some Tropical Crater Lakes, Ethiopia, W85-03683 1807 2H

**WOOD, S.**  
Potential Sites of Geosmin Production by Streptomyces in and around Reservoirs, W85-06181 1812 5B

**WOOD, S. G.**  
Water Relations of Oak Species On and Adjacent to a Maryland Serpentine Soil, W85-03015 1806 2I

**WOOD, W. A.**  
Hydrogeologic Data for Selected Test Wells Drilled in the Fort Union Coal Region, Eastern Montana, W85-03952 1808 2F

**WOOD, W. W.**  
Origin and Distribution of Carbon Dioxide in the Unsaturated Zone of the Southern High Plains of Texas, W85-02661 1805 2K

**WOODARD, E. E.**  
Five-Day Biochemical Oxygen Demand Removal from Rendering Plant Wastewater, W85-05255 1810 5D

**WOODARD, G. C.**  
Arizona Water Issues: Contrasting Economic and Legal Perspectives, W85-04756 1809 6E

**WOODBURY, A. D.**  
Thermal Effects of Three-Dimensional Groundwater Flow, W85-04339 1808 2F

**WOODCOCK, C. P. N.**  
Consultant's Role in Management Advice for Water Utilities, W85-07062 1812 6A

**WOODCOCK, J. J.**  
Common Denominator: Equivalent Residential Units, W85-03616 1807 6C

**WOODING, R. A.**  
Motion of Two Compressible Fluids with Interface in a Porous Reservoir, W85-02154 1804 2F

**WOODS, C. E.**  
Water Rates and the Rate-Setting Process, W85-03614 1807 6C

**WOODS, D. R.**  
Effect of Filter Pore Size on the Evaluation of Aluminum Coagulants to Remove Fulvic Acid from Water, W85-02919 1806 5F

Lea Marston Purification Lake: Operational and River-Quality Aspects, W85-04458 1809 5G

**WOODS, L. C.**  
Mitigating Effects of Artificial Riffles and Pools on the Fauna of a Channelized Warmwater Stream, W85-00203 1801 6G

**WOODS, P. E.**  
Acute Toxicity of Copper to Three Life Stages of *Chironomus tentans* as Affected by Water Hardness-Alkalinity, W85-04946 1809 5C

**WOODS, P. F.**  
Intervention Analysis of Water Quality Records, W85-03131 1806 7B

**WOODS, S.**  
Role of Facultative Anaerobic Micro-organisms in Anaerobic Biodegradation of Chlorophenols, W85-07022 1812 5D

**WOODWARD, G. M.**  
Pollution Control in the Humber Estuary, W85-04453 1809 5G

**WOODWARD, R. H.**  
Determining Soil Moisture from Geosynchronous Satellite Infrared Data: A Feasibility Study, W85-01152 1803 2G

**WOOF, C.**  
Dynamics of Iron and Manganese in a Seasonally Anoxic Lake; Direct Measurement of Fluxes Using Sediment Traps, W85-01597 1803 2H

Manganese Chemistry in Rivers and Streams, W85-03213 1806 2K

Seasonal Variations in the Concentrations of Humic Substances in a Soft-Water Lake, W85-01590 1803 2H

**WOOLHISER, D. A.**  
Identification of Water Sources Using Normalized Chemical Ion Balances: A Laboratory Test, W85-06045 1811 2K

Mapping Average Daily Pan Evaporation, W85-01516 1803 2D

Stochastic Model of Dimensionless Thunderstorm Rainfall, W85-06505 1812 2B

**WOOLLOFF, D. A.**  
Development of a Comprehensive Sampling Programme for Yorkshire Water Authority, W85-03885 1808 5F

**WOOLMINGTON, E.**  
Leakages in Urban Water Systems: Village Creek, Canberra, Australia, W85-06603 1812 5F

**WOOLNOUGH, J. P.**  
Design and Development of the Flood Storage and Amenity Reservoirs of the Rother Valley Country Park, W85-03883 1808 4A

**WORLEY, S. D.**  
Bactericidal Properties of a New Water Disinfectant, W85-05511 1810 5F

Stability in Water of a New Chloramine Disinfectant as a Function of pH, Temperature, and Water Quality, W85-01374 1803 5F

Tendency of a New Water Disinfectant to Produce Toxic Trihalomethanes, W85-01376 1803 5F

**WORMLEATON, P. R.**  
Flow Distribution in Compound Channels, W85-05788 1810 2E

Parameter Optimization in Flood Routing, W85-03790 1808 2E

**WORTHINGTON, J. W.**  
Stomatal Responses to Leaf Water Potentials of Drip Irrigated Peach (*Prunus persica*), W85-04746 1809 2I

**WOYCHUK, R. N.**  
Dissolved and Suspended Mercury Species in the Wabigoon River (Ontario, Canada): Seasonal and Regional Variations, W85-02091 1804 5B

**WRATTEN, F. T.**  
Hydraulic Conductivity Measured Electronically in an Auger Hole, W85-04740 1809 2G

**WREMBEL, H. Z.**  
Estimation of the Mercury Content in the Waters of the Pomeranian Baltic-Shore-Area, W85-06273 1812 5B

**WREN, C. D.**  
Mercury Uptake by Lake Trout, *Salvelinus namaycush*, Relative to Age, Growth, and Diet in Tadenc Lake with Comparative Data from Other PreCambrian Shield Lakes, W85-00885 1802 5C

**WRENN, P.**  
Does Your Water System Have Hydroelectric Generating Potential, W85-05488 1810 6B

## AUTHOR INDEX

**WRIGHT, A. P.**

**WRIGHT, A. P.**  
Tightening Regulations for Hazardous Waste Management: Mandates and Compliance Strategies,  
W85-05768 1810 6E

**WRIGHT, B. A.**  
Use of Bituminous Coal as an Alternative Technique for Field Concentration of Waterborne Viruses,  
W85-07129 1812 5A

**WRIGHT, D. A.**  
Factors Affecting Trace Metal Accumulation by Estuarine Oyster Crassostrea virginica,  
W85-06878 1812 5A

**WGEN:** A Model for Generating Daily Weather Variables,  
W85-05129 1810 7C

**WRIGHT, D. L.**  
Lake Restoration by Biomanipulation: Round Lake, Minnesota, the First Two Years,  
W85-02284 1805 5G

Nutrient Reduction by Biomanipulation: An Unexpected Phenomenon and Its Possible Cause,  
W85-02645 1805 5G

**WRIGHT, E. J.**  
Plant Zonation and the Effects of the Spring-Neap Tidal Cycle on Soil Aeration in a Humber Salt Marsh,  
W85-06369 1812 2L

**WRIGHT, I. R.**  
Use of a Wet-Surface Weighing Lysimeter System in Rainfall Interception Studies of Heather (*Calluna vulgaris*),  
W85-01154 1803 2I

**WRIGHT, J. F.**  
Classification of Sites on British Rivers Using Macroinvertebrates,  
W85-05674 1810 2H

Preliminary Classification of Running-Water Sites in Great Britain Based on Macro-Invertebrate Species and the Prediction of Community Type Using Environmental Data,  
W85-00293 1801 2H

**WRIGHT, R. F.**  
Norwegian Models for Surface Chemistry: An Overview,  
W85-05317 1810 2A

**WRIGHT, S. J.**  
Field Comparison of Three Mass Transport Models,  
W85-04393 1808 5B

Spreading Layer of Two-Dimensional Buoyant Jet,  
W85-00731 1802 8B

**WRONSKI, E.**  
Model of Canopy Drying,  
W85-06678 1812 2D

**WU, D.**  
Sedimentation Problem in Water Conservancy in China,  
W85-04446 1809 4D

**WU, I. P.**  
Design of Drip Irrigation Lateral Length on Uniform Slopes,  
W85-05929 1811 3F

**WU, J. S.**  
Removal of Organic Precursors by Permanganate Oxidation and Alum Coagulation,  
W85-06222 1812 5F

**WU, T. L.**  
Atrazine Toxicity to Submersed Vascular Plants in Simulated Estuarine Microcosms,  
W85-01082 1802 5C

Seasonal and Annual Variation in the Discharge of Metallic Cations from Rhode River Watersheds,  
W85-05362 1810 5B

Seasonal and Annual Variation in the Precipitation Chemistry of the Rhode River Ecosystem,  
W85-05355 1810 2K

**WU, X.**  
Large Hydropower Stations in China,  
W85-04951 1809 6B

**WU, Y. C.**  
Ecological Study of Activated Sludge Settling Property in the Completely Mixed System,  
W85-04301 1808 5D

**WULFF, T.**  
Gas Chromatographic-Mass Spectrometric Investigations on Lipophilic Anthropogenic Substances in Marine Organisms; I. A Clean-up Procedure Consisting of Liquid-Liquid and Reversed Phase (Octadecyl)-Partitioning,  
W85-04986 1810 5A

**WULFF, F.**  
Eutrophication and the Baltic Sea: Causes and Consequences,  
W85-05464 1810 5C

**WUNDERLICH, W. O.**  
Hydro System Planning of the TVA,  
W85-01547 1803 6A

Long-Range Reservoir Outflow Temperature Planning,  
W85-01565 1803 6G

**WUNSCHE, H.**  
Efforts Toward a Basic Economic Study and Planning of the Drinking-Water Supply in the Upper Spree Region as a Basis for Capital Investment (Arbeiten zur Grundfondswirtschaftlichen Untersuchung und Planung der Trinkwasserversorgung im Oberen Spreegebiet als Grundlage der Investitionstätigkeit),  
W85-03516 1807 3B

**WURSTER, C. F.**  
PCB Resistance within Phytoplankton Populations in Polluted and Unpolluted Marine Environments,  
W85-04864 1809 5C

**WURSTER, K.**  
Evidence of Ectocarpene and Dictyopterenes A and C in the Water of a Freshwater Lake,  
W85-03879 1808 2H

**WUSTAMIDIN,**  
Aggregate Breakdown in Relation to Raindrop Energy,  
W85-06747 1812 2G

**WYART, J.**  
Use of Dissolved Oxygen as Indicator of Hydrological Structures: Application to Karstic Aquifers (Utilisation de l'oxygene dissous comme indicateur de structures hydrogeologiques: exemple d'application aux aquifères karstiques),  
W85-00948 1802 2F

**WYCOFF, R. L.**  
Integrating Water Quality and Construction Grants Management,  
W85-02583 1805 5G

**WYER, M. D.**  
Nitrate Transformations in Southern Ontario Stream Sediments,  
W85-03139 1806 2E

**WYMAN, J. F.**  
Environmental Chemistry of 1,2-Propanediol Dinitrate: Azeotrope Formation, Photolysis and Biodegradability,  
W85-03220 1807 5D

**WYMAN, R. L.**  
Factors Influencing Impingement of Fish by Lake Ontario Power Plants,  
W85-04713 1809 8I

**WYRWICH, M.**  
Improved Operational Control of Sedimentation Facilities Through the Use of Fiberoptic Sensors (Verbesserte Betriebskontrolle von Sedimentationsanlagen durch Nutzung faseroptischer Sensoren),  
W85-01882 1804 5D

**WYSEURE, G.**  
Application of a Cell Model to the Bellebeek Watershed,  
W85-06638 1812 2E

Numerical Analysis of Irrigation Treatments of Barley with Respect to Drainage Losses and Crop Response,  
W85-06091 1811 3F

**XIE, Q.**  
Transfer of Particulate Organic Carbon and Nitrogen from the Yangtze River to the Ocean,  
W85-02467 1805 2J

**XIE, T. M.**  
Simultaneous Determination of Partition Coefficients and Acidity Constants of Chlorinated Phenols and Guaiacols by Gas Chromatography,  
W85-02115 1804 5A

**XU, B.-X.**  
Indirect Determination of Trace Phenol in Water by Atomic-Absorption Spectrometry,  
W85-06251 1812 5A

**XU, C. H.**  
Differential Response of Marine Organisms to Certain Metal and Agrichemical Pollutants,  
W85-02783 1806 5A

**XU, H.-S.**  
Survival and Viability of Nonculturable Escherichia coli and Vibrio cholerae in the Estuarine and Marine Environment,  
W85-02186 1805 5B

**XU, S.**  
Determination of Trace Amounts of Heavy Metals in Waters by a Flow-Injection System Including Ion-Exchange Preconcentration and Flame Atomic Absorption Spectrometric Detection,  
W85-04653 1809 5A

**XU, T.-M.**  
Indirect Determination of Trace Phenol in Water by Atomic-Absorption Spectrometry,  
W85-06251 1812 5A

**YABE, K.**  
Ecological Studies of the Mobera-Yatsumi Marsh. Main Physical and Chemical Factors Controlling the Marsh Ecosystem,  
W85-02381 1805 2L

**YABUSHITA, T.**  
Treatment of Highly Fouling Waste Waters with Tubular Membrane Systems,  
W85-01225 1803 5D

**YAGI, M.**  
Determination of Nitrate in Natural Waters by Flow-Injection Analysis,  
W85-03720 1807 5A

Simultaneous Preconcentration of Copper, Nickel and Cobalt in Water by Coprecipitation-Flotation for Electrothermal Atomic Absorption Spectrometry,  
W85-03742 1807 5A

**YAGI, O.**  
Predictive Assessment of Priority Pollutant Bio-Oxidation Kinetics in Activated Sludge,  
W85-02768 1806 5D

## AUTHOR INDEX

YASUNO, M.

<b>YAGUE, J.</b> Sand Dam, W85-00157	1801 8A	<b>YAMOCHI, S.</b> Inorganic Nutrients Occurring in the Oxygen-deficient Bottom Water of Osaka Bay, W85-04606	1809 2K	<b>YANOSKY, T. M.</b> Evidence of Floods on the Potomac River from Anatomical Abnormalities in the Wood of Flood-Plain Trees, W85-06360	1812 2I
<b>YAKOWITZ, S.</b> Markov Flow Models and the Flood Warning Problem, W85-04795	1809 2E	<b>YAN, N. D.</b> Elevated Planktonic Rotifer Biomass in Acidified Metal-Contaminated Lakes near Sudbury, Ontario, W85-05715	1810 5C	<b>YAPA, P. D.</b> Effect of Ice Cover on Hydropower Production, W85-02444	1805 8B
<b>YAKSICH, S. M.</b> Accelerated Implementation Program for Reducing the Diffuse-Source Phosphorus Load to Lake Erie, W85-05964	1811 5G	<b>YANAGI, K.</b> New Chemical Approach to the Study of Waters of Mt. Fuji Environs, W85-00760	1802 2A	<b>Unified Degree-Day Method for River Ice Cover Thickness Simulation,</b> W85-06551	1812 2C
Analysis of Total Phosphorus Transport in River Systems, W85-02074	1804 2E	<b>YANAGIDA, J. F.</b> Agricultural Water Pollution Control: An Interdisciplinary Approach, W85-05067	1810 6B	<b>YAPP, C. J.</b> D/H Variations of Meteoric Waters in Albuquerque, New Mexico, U.S.A., W85-05532	1810 2F
<b>YAKUSHIN, V. M.</b> Studies on Destruction of Organic Substance of Higher Aquatic Plants by Laboratory Water Course Models (Izuchenie Destruktsiy Organicheskogo Veshchestva Vysshikh Vodnykh Rastenii na Labopatornykh Modelyah Vodotokov), W85-06376	1812 2K	<b>YANAR, H.</b> Turkish Dam Impounds World's Largest Karst Spring, W85-04033	1808 8A	Model for the Relationships Between Precipitation D/H Ratios and Precipitation Intensity, W85-00517	1802 2B
<b>YALCIN, A. S.</b> Pile Capacity for Eccentric Inclined Load in Clay, W85-03422	1807 8D	<b>YANDLE, B.</b> Environmental Control and Regional Growth, W85-04755	1809 6G	<b>YARAMANOGLU,</b> USDAHL Hydrologic Model, W85-05340	1810 2A
<b>YALLOP, M. L.</b> Ecological Significance of Upwelling Events in Lake Ontario, W85-01357	1803 2H	<b>YANG, C. T.</b> Unit Stream Power Equation for Gravel, W85-03789	1808 2J	<b>YARBRO, L. A.</b> Effects of Stream Channelization on Exports of Nitrogen and Phosphorus from North Carolina Coastal Plain Watersheds, W85-00979	1802 6G
<b>YAMADA, H.</b> Evaluation of Cotton Canopy Temperature to Detect Crop Water Stress, W85-03368	1807 2I	<b>YANG, I. C.</b> Releases of Radium and Uranium into Ralston Creek and Reservoir, Colorado, from Uranium Mining, W85-06776	1812 5B	<b>YARBROUGH, J. D.</b> Short-Term Interactions Between DDT and Endrin Accumulation and Elimination in Mosquitofish ( <i>Gambusia affinis</i> ), W85-07157	1812 5C
Fate of Fenitrothion in Several Developmental Stages of the Killifish ( <i>Oryzias latipes</i> ), W85-02422	1805 5C	<b>YANG, J. P.</b> Derivatization of Organic and Inorganic N-Chloramines for High-Performance Liquid Chromatographic Analysis of Chlorinated Water, W85-02807	1806 5A	<b>YARECHEWSKI, A. L.</b> Degradation of Methoxychlor in Sediments under Various Redox Conditions, W85-01443	1803 5B
Water Use Efficiency of Narrow Row Cotton, W85-05918	1811 3F	<b>YANG, P.-S.</b> Effects of Predrilling and Layered Soils on Piles, W85-04383	1808 8D	Degradation of Niclosamide (2'-5-Dichloro-4'-nitrososalicylanilide) in Sediment and Water Systems, W85-00161	1801 5B
<b>YAMAGUCHI, M.</b> Successful Water Quality Planning: An Areawide Perspective, W85-05952	1811 5G	<b>YANG, P. Y.</b> Integrating Anaerobic Digestion and Algal-Biomass Treatment Processes for Swine Wastewater, W85-05410	1810 5D	<b>YAROSHENKO, D. G.</b> Use of Steel Fiber-Reinforced Concrete for Groove Elements of Gates, W85-00446	1801 8F
<b>YAMAMOTO, M.</b> Dissolved Organic Carbon as a Controlling Factor in Oxygen Consumption in Natural and Man-made Waters, W85-00530	1802 5B	Sludge Recycling for Methane Fermentation Processing of Swine Wastewater, W85-05258	1810 5D	<b>YASHKUL', D. M.</b> Experience in the Operation of Overflow Buttress Dams Under Severe Climatic Conditions, W85-00486	1801 4A
<b>YAMAMOTO, Y.</b> Mutagenic Activity in Organic Concentrate from Nishitakase River Water in Kyoto City, and its Fractions Separated by Using Liquid-Liquid Fractionation and Thin Layer Chromatography, W85-04980	1810 5A	<b>YANG, T.</b> Removal of Metals from Sludge Using Chitosan Columns, W85-05994	1811 5D	<b>YASUDA, H.</b> Longitudinal Dispersion of Matter due to the Shear Effect of Steady and Oscillatory Currents, W85-05469	1810 8D
<b>YAMANAKA, S.</b> Mutagenic Activity in Organic Concentrate from Nishitakase River Water in Kyoto City, and its Fractions Separated by Using Liquid-Liquid Fractionation and Thin Layer Chromatography, W85-04980	1810 5A	<b>YANG, T.-S.</b> Elemental Composition of Suspended Particles From the Yellow and Yangtze Rivers, W85-01703	1804 2J	<b>YASUDA, I.</b> Diatom Assemblages in Lacustrine Sediments of Lake Shibu-ike, L. Misumi-ike, L. Naga-ike, L. Kido-ike in Shiga Highland and a New Biotic Index Based on the Diatom Assemblage for the Acidity of Lake Water (in Japanese), W85-00535	1802 5C
<b>YAMANE, A. N.</b> Growth Inhibition of Planktonic Algae Due to Surfactants Used in Washing Agents, W85-02427	1805 5C	<b>YANG, W.</b> Improving the Performance of Houston's Southwest Wastewater Treatment Plant, U.S.A., W85-03633	1807 5D	<b>YASUHARA, M.</b> Stormflow Generation in a Headwater Basin in the Tama Hills (in Japanese), W85-00190	1801 2E
<b>YAMASHITA, M.</b> Spectrophotometric Determination of Nitrite in Waters with 5,7-Dihydroxy-4-imino-2-oxochroman, W85-02833	1806 5A	<b>YANG, Z.</b> Transfer of Particulate Organic Carbon and Nitrogen from the Yangtze River to the Ocean, W85-02467	1805 2J	<b>YASUNARI, M.</b> Studies on Performance of Desalination Plant by Reverse Osmosis System - II: Effects of Inhibition of Bacterial Growth with NaHSO3 on Performance of Plant (in Japanese), W85-02838	1806 3A
<b>YAMAUCHI, H.</b> Impact on Groundwater Resources of Conversion from Furrow to Drip Irrigation, W85-02982	1806 3F	<b>YANNOPoulos, S.</b> Simplified Determination and Sensitivity Analysis of Soil-Moisture Retention Curves and Hydraulic Conductivity, W85-03755	1807 2G	<b>YASUNO, M.</b> Effects of Insecticides on the Benthic Community in a Model Stream, W85-06815	1812 5C

## AUTHOR INDEX

**YASUNO, M.**

Overwintering of *Microcystis aeruginosa* Kutz. in a Shallow Lake, W85-03245 1807 2H

**YATES, M. D.** Mycobacteria in Water, W85-03298 1807 5B

**YATES, M. V.** Virus Persistence in Groundwater, W85-06140 1811 5B

**YATES, P.** Estimating the Effectiveness of Vegetated Floodplains/Wetlands as Nitrate-Nitrite and Orthophosphorus Filters, W85-06634 1812 5B

**YATES, S. R.** Generalized Solution to Infiltration, W85-05182 1810 2G

Hillside Seepage: An Analytical Solution to a Nonlinear Dupuit-Forchheimer Problem, W85-05796 1810 2F

**YAUN, J.** Stabilization of Sludge from an Oxidation Ditch, W85-02575 1805 5E

**YAZAR, A.** Evaporation and Drift Losses from Sprinkler Irrigation Systems under Various Operating Conditions, W85-06689 1812 3F

**YAZICIGIL, H.** Effects of Risk and Reliability on Optimal Reservoir Design, W85-01378 1803 8A

**YEANY, P. R.** Permit Fees for New Jersey's Surface and Groundwater Dischargers, W85-00281 1801 6E

**YEATES, G. L.** Comparison of Sampling Mechanisms Available for Small-Diameter Ground Water Monitoring Wells, W85-06834 1812 2F

**YEATS, P. A.** Dissolved Chromium in the St. Lawrence Estuary, W85-03633 1807 2L

**YEE, A.** Evaluation of Water Bleeder Controls, W85-03301 1810 8C

Study of Water Bleeder Control Alternatives, W85-04922 1809 3D

**YEE, N. S.** Biotoxicity of Coal Liquefaction Waste in the Activated Sludge Process, W85-05437 1810 5D

**YEE, R. B.** Effect of Temperature, pH, and Oxygen Level on the Multiplication of Naturally Occurring *Legionella pneumophila* in Potable Water, W85-07128 1812 5B

**YEH, G. T.** Comparisons of Successive Iteration and Direct Methods to Solve Finite Element Equations of Aquifer Contaminant Transport, W85-05790 1810 5B

Eigenvalue Solution Continuous in Time to the Spatially Discretized Solute Transport Equation in Steady Groundwater Flow, W85-03573 1807 5B

**YEH, T.-C.** Effect of Soil Moisture on the Short-Term Climate and Hydrology Change - A Numerical Experiment, W85-01335 1803 8G

Galerkin Finite-Element Program for Simulating Unsaturated Flow in Porous Media, W85-04645 1809 2F

**YEH, T.-C. J.** Stochastic Analysis of Unsaturated Flow in Heterogeneous Soils; 1. Statistically Isotropic Media, W85-06499 1812 2G

Stochastic Analysis of Unsaturated Flow in Heterogeneous Soils; 2. Statistically Anisotropic Media with Variable alpha, W85-06500 1812 2G

Stochastic Analysis of Unsaturated Flow in Heterogeneous Soils; 3. Observations and Applications, W85-06501 1812 2G

**YEH, W. W.-G.** Capacity Expansion of Sao Paulo Water Supply, W85-06034 1811 6A

Extended Identifiability in Aquifer Parameter Identification and Optimal Pumping Test Design, W85-03989 1808 2F

Parameter Identification of Groundwater Aquifer Models: A Generalized Least Squares Approach, W85-02164 1804 2F

**YEHL, T. C.** Toxicity of Wet Limestone Scrubber Sludges, Ash Pond Sludges and Effluent Wastes from a Combustion Process, W85-05274 1810 5D

**YEN, C.** Competitive Adsorption of Phenols on Activated Carbon, W85-02820 1806 5D

**YESAKI, I.** Coprecipitation of Phosphate with Calcite in a Naturally Eutrophic Lake, W85-01587 1803 2H

**YEUNG, H.-Y.** Alterations in the Zooplankton Community of a Fly Ash Treated Lake, W85-00995 1802 5G

**YEUNG, K. S.** Eigenvalue Technique for Solute Transport, W85-03004 1806 5B

**YEVICH, P. P.** Effects of Long-Term Exposure to Silver or Copper on Growth, Bioaccumulation and Histopathology in the Blue Mussel *Mytilus edulis*, W85-01355 1803 5C

**YEVJEVICH, V.** Estimation of Skewness of Hydrologic Variables, W85-02161 1804 2A

Hydraulic-Resistance Terms Modified for the Dressler Curved-Flow Equations, W85-02929 1806 2E

**YIN, C.-M.** Changes in Oxygen Consumption and Nitrogen Metabolism in the Dragonfly Somatochloris cingulata Exposed to Aluminum in Acid Waters, W85-05867 1811 5C

**YING, W.-C.** Use of a Rapid Bioassay for Assessment of Industrial Wastewater Treatment Effectiveness, W85-05570 1810 5A

**YTAYEW, M.** Dimensionless Runoff Curves for Irrigation Borders, W85-01510 1803 3F

**YLI-KARJANMAA, S.** Method for Estimation of Sliming of Nets in Lake Waters, W85-03679 1807 5A

**YOBBI, D. K.** Trends and Fluctuations in the Potentiometric Surface of the Floridan Aquifer, West-Central Florida, 1961-80, W85-01940 1804 7C

**VOE, C. E.** Ice-Related Flood Damage Estimation, W85-01573 1803 2E

**YOHE, T. L.** Applying Analytical Techniques to Solve Groundwater Contamination Problems, W85-05478 1810 5G

**YOKEL, B. J.** Recovery of Selected Pathogens from Naples Bay, Florida, and Associated Waterways, W85-02397 1805 5B

**YONEDA, A.** Preliminary Studies on Treatment of Chromium Tannery Waste Sludge by Anaerobic Digestion, W85-04251 1808 5D

**YONG, R. N.** Stability and Settling of Suspended Solids in Settling Ponds. Part II. Diffusion Analysis of Initial Settling of Suspended Solids, W85-05527 1810 2J

**YOO, J. Y.** Dissipation of Permethrin in Limnocorals, W85-04838 1809 5B

**YOSHIDA, H.** Seasonal Variation of Dissolved Organic Matter in Funka Bay, W85-06441 1812 2L

**YOSHIDA, T.** Summer Peak of Nutrient Concentrations in Lake Water, W85-02098 1804 5B

**YOSHIDA, Y.** Studies on a Freshwater Red Tide in Lake Biwa - I. Changes in the Distribution of Phytoplankton and Nutrients (in Japanese), W85-00541 1802 5C

Studies on a Freshwater Red Tide in Lake Biwa - II. Relation between Occurrence of Red Tide and Environmental Factors (in Japanese), W85-00542 1802 2H

**YOSHIHARA, T.** New Chemical Approach to the Study of Waters of Mt. Fuji Environs, W85-00760 1802 2A

**YOSHIMURA, K.** Biodegradation of Linear Alkylbenzene Sulfonates and Soap in River Water (in Japanese), W85-03508 1807 5B

Existence of Anionic Surfactants in River (in Japanese), W85-00191 1801 5A

Microdetermination of Silicic Acid in Water by Gel-Phase Colorimetry with Molybdenum Blue, W85-03340 1807 5A

**YOSHIOKA, N.** New Thin-Film Composite Reverse Osmosis Membranes and Spiral Wound Modules, W85-02553 1805 3A

**YOST, R. A.** Determination of Aldicarb, Aldicarb Oxime, and Aldicarb Nitrile in Water by Gas Chromatography/Mass Spectrometry, W85-01078 1802 5A

## AUTHOR INDEX

ZAKHAROVA, L. I.

<b>YOTUKURA, N.</b>						
Assessment of Steady-State Propane-Gas Tracer Method for Reeration Coefficients - Coweselon Creek, New York, W85-00838	1802	5G				
<b>YOUAKIM, S.</b>						
Distribution and Flux of Particulate Matter in the Bideford River Estuary, Prince Edward Island, Canada, W85-00912	1802	2L				
<b>YOUNG, C. T.</b>						
Recovery and Application of Solids from Crab-Processing Wastewater, W85-05567	1810	5D				
<b>YOUNG, D. A.</b>						
Biodegradation of Chemical Plant Wastewater Containing Dimethylformamide, W85-05432	1810	5D				
<b>YOUNG, D. C.</b>						
Virion Conformational Forms and the Complex Inactivation Kinetics of Echovirus by Chlorine in Water, W85-05048	1810	5F				
<b>YOUNG, D. D.</b>						
River Quality and Sewage Effluent Standards, W85-05515	1810	5G				
<b>YOUNG, D. F.</b>						
Using Pilot Plants to Design Facilities, W85-02302	1805	5E				
<b>YOUNG, E. S. JR.</b>						
In-Situ Bioassays of Fish Mortality in Two Pennsylvania Streams Acidified by Atmospheric Deposition, W85-00205	1801	5C				
<b>YOUNG, J. S.</b>						
Behavior of Trace Metals in <i>Mytilus edulis</i> During a Reciprocal Transplant Field Experiment, W85-02540	1805	5C				
<b>YOUNG, R. A.</b>						
Effects of Electricity Rates and Rate Structures on Pump Irrigation: An Eastern Colorado Case Study, W85-04752	1809	3F				
Method of Measuring Aggregate Stability Under Waterdrop Impact, W85-04733	1809	2J				
Sediment Cap Stability Study, New York Dredged Material Dumpsite, W85-00053	1801	5E				
<b>YOUNG, R. C.</b>						
Automated Fish Respiratory Monitoring System for Stream Acidification Episode Assessment, W85-05629	1810	5A				
Toxicity of Wet Limestone Scrubber Sludges, Ash Pond Sludges and Effluent Wastes from a Combustion Process, W85-05274	1810	5D				
<b>YOUNG, R. L.</b>						
Flood Potential of Fortymile Wash and its Principal Southwestern Tributaries, Nevada Test Site, Southern Nevada, W85-02037	1804	2E				
<b>YOUNG, R. W.</b>						
Livestock Lagoon Systems for Disposal of Pesticide Wastes, W85-03381	1807	5D				
<b>YOUNG, T. B.</b>						
Drinking Water Treatment and Risk of Cancer Death in Wisconsin, W85-01214	1803	5C				
<b>YOUNG, T. C.</b>						
Algal-Availability of Particulate Phosphorus from Diffuse and Point Sources in the Lower Great Lakes Basin, W85-02061	1804	2K				
<b>YOUNGBLUTH, M. J.</b>						
Use of a Simple Water Column Sampler to Monitor Chemical and Biological Conditions in Shallow Waters, W85-01239	1803	7B				
<b>YOUNGS, E. G.</b>						
Comparison of Steady-State Land-Drainage Equations, W85-03479	1807	2F				
<b>YOUNOS, T. M.</b>						
Systems Approach for Agricultural Land Management and Water Quality Control, W85-03390	1807	2J				
<b>YOUNT, J. W.</b>						
Near Zero D.O. Activated Sludge Case History, W85-05556	1810	5D				
<b>YOUSEF, Y. A.</b>						
Fate of Heavy Metals in Stormwater Runoff from Highway Bridges, W85-00746	1802	5B				
Fate of Phosphorus and Nitrogen in Ponds Receiving Highway Runoff, W85-00748	1802	5B				
Impact of Bridging on Floodplains, W85-06067	1811	6G				
<b>YOUSSUF HAROON, A. K.</b>						
Diatoms of the Shatt Al-Arab River, Iraq, W85-05724	1810	2H				
<b>YU, J. C.</b>						
Dithiocarbamate Extraction of Gallium from Natural Waters and from Biological Samples for Neutron Activation Analysis, W85-04961	1809	5A				
<b>YU, V. L.</b>						
Ecology of <i>Legionella pneumophila</i> within Water Distribution Systems, W85-04264	1808	5F				
<b>YU, Y.-S.</b>						
Monthly Evaporation for Milford Lake in Kansas, W85-01507	1803	2D				
<b>YUDINA, N. V.</b>						
Development of a Manufacturing Method for Precast Elements of Reinforced-Concrete Pipes of the Zagorsk Pumped-Storage Station using Electric Heating of the Concrete Mix, W85-00440	1801	8D				
<b>YUGAI, A. I.</b>						
Selection and Substantiation of Effective Drainage Protection of the Gate Works of the Diversions Tunnels of the Rogun Hydroelectric Station, W85-05027	1810	8A				
<b>YULIN, A. N.</b>						
Temporal Variation of the Characteristics of Sands in Hydraulic-Fill Structures of the Riga Hydroelectric Station, W85-05023	1810	8D				
<b>YUREWICZ, M. C.</b>						
Hydrologic Data from an Area Southwest of Tallahassee, Florida, Where Municipal Wastewater Effluent is Applied by Spray Irrigation, W85-00040	1801	7C				
<b>YUSA, Y.</b>						
Parameterized Model for Thermosolutal Convection due to Surface Cooling, W85-00933	1802	2H				
<b>YUST, L. Y.</b>						
Pilot Scale Investigation of Computerized Control of the Activated Sludge Process, W85-05333	1810	5D				
<b>ZABEL, T. F.</b>						
Experimental Study of Ozonation Followed by Slow Sand Filtration for the Removal of Humic Colour from Water, W85-03050	1806	5D				
<b>ZABELKIN, V. M.</b>						
Alignment of the Rotor of a Vertical Unit, W85-03584	1807	8C				
<b>ZACHARA, J. M.</b>						
Subsurface Transport with Emphasis on Hydrology: Research Needs, W85-04217	1808	5B				
<b>ZACHMANN, D. W.</b>						
Modeling Physics and Chemistry of Contaminant Transport in Three-Dimensional Unsaturated Groundwater Flow, W85-06301	1812	2F				
<b>ZACHOS, L. G.</b>						
Classification and Description of Dolomitic Facies of Rocks from the Floridan Aquifer, U.S.A., W85-01733	1804	2F				
<b>ZACK, A.</b>						
Hydraulic Technique for Designing Scavenger-Production Well Couples to Withdraw Freshwater from Aquifers Containing Saline Water, W85-06316	1812	3B				
<b>ZADROGA, F.</b>						
Small-Scale Hydroelectric Power for Developing Countries: Methodology of Site-Selection Based on Environmental Issues, W85-00647	1802	6B				
<b>ZAFIRIOU, O. C.</b>						
Photochemistry of Natural Waters, W85-03660	1807	2K				
<b>ZAGHLLOU, N. A.</b>						
Sensitivity Analysis of the SWMM Runoff-Transport Parameters and the Effects of Catchment Discretisation, W85-04157	1808	2E				
<b>ZAHN, R. K.</b>						
Biochemical Alterations Induced in Fish by an Acute Kerosene-Spillage, W85-06394	1812	5C				
DNA Damage by Benzo(a)pyrene in the Liver of Mosquito Fish <i>Gambusia affinis</i> , W85-06550	1812	5C				
<b>ZAIIDI, S. A.</b>						
Treatment of Cyanide-Containing Wastewaters by the Copper-Catalyzed SO <sub>2</sub> /Air Oxidation Process, W85-05422	1810	5D				
<b>ZAISS, U.</b>						
Nutrient Budget of Lake Bostalsee (Saarland) with Particular Reference to Phosphorus and Nitrogen (Der Nährstoffhaushalt des Bostalsees (Saarland) unter besonderer Berücksichtigung des Phosphors und Stickstoffs), W85-00629	1802	5G				
<b>ZAITSEV, M. V.</b>						
Cast Concretes with Frostproofing Additives in Underground Construction, W85-00463	1801	8F				
<b>ZAJICEK, J. L.</b>						
National Pesticides Monitoring Program: Residues of Organochlorine Chemicals in Freshwater Fish, 1980-1981, W85-05111	1810	5B				
<b>ZAKHAROV, V. F.</b>						
Vibration Tests of the Andizhan Reservoir Buttress Dam, W85-05024	1810	8G				
<b>ZAKHAROVA, L. I.</b>						
Role of Mycoflora of the Volga and Some Northern Water Bodies in Processes of Self-Purification and Bioindication of Waters, W85-05156	1810	5A				

## AUTHOR INDEX

**ZALL, R. R.**

**ZALL, R. R.**  
Removal of Metals from Sludge Using Chitosan Columns,  
W85-05994 1811 5D

**ZALTSBERG, E.**  
Methods of Forecasting and Mapping of Ground-Water Tables in the USSR,  
W85-00344 1801 4B

**ZAMORANO, D.**  
Degradation of Macromolecular Organic Compounds in a Tropical Lagoon (*Ciénaga Grande, Colombia*) and its Ecological Significance,  
W85-04907 1809 2L

**ZAND, S. M.**  
Transport and Concentration Controls for Chloride, Strontium, Potassium and Lead in *Uvas Creek*, a Small Cobble-Bed Stream in Santa Clara County, California, U.S.A.; 1. Conceptual Model,  
W85-04270 1808 2K

**ZANDER, N.**  
Atmospheric Deposition: Sample Handling, Storage, and Analytical Procedures for Chemical Characterization of Event-Based Samples in North Dakota,  
W85-03949 1808 5A

**ZANEVELD, J. R. V.**  
Vertical Distribution of Suspended Particulate Matter in the Zaire River, Estuary and Plume,  
W85-03675 1807 2L

**ZANGVIL, A.**  
Portable Evaporimeter for Rapid Measurement of the Evaporation Rate of Water,  
W85-06199 1812 2D

**ZANON, G.**  
Availability of Sediment P in Lake Lugano,  
W85-04563 1809 2H

**ZAOUI, J.**  
Hydraulic Problems Posed by Direct-Cycle TES Stations Offshore (Problèmes Hydrauliques Poses par les Centrales ETM à Cycle Direct au Large),  
W85-00386 1801 8C

**ZAPOROZEC, A.**  
Data for Selected Wells in Northern Wisconsin Drought and Ground Levels in Northern Wisconsin: Appendix B,  
W85-06894 1812 2F

**ZARET, T. M.**  
Mixing Patterns in Amazon Lakes,  
W85-01004 1802 2H

Nutrient Addition Experiments in Lago Jacaretinga, Central Amazon, Brazil; 2. The Effect of Humic and Fulvic Acids,  
W85-01018 1802 2H

**ZARETSKII, YU. K.**  
Effect of the Reservoir Filling Regime on the Stress and Strain State of an Earth-Rock Dam,  
W85-00445 1801 8B

**ZAROGIAN, G. E.**  
Nickel Uptake and Loss in the Bivalves *Crassostrea virginica* and *Mytilus edulis*,  
W85-02212 1805 5A

**ZARTMAN, R. E.**  
Saline Irrigation Water: Effects on Soil Chemical and Physical Properties,  
W85-04618 1809 3C

**ZEBCHUK, W. D.**  
Measurement of Soil Water Content Using a Portable TDR Hand Probe,  
W85-02801 1806 2G

**ZEFF, J. D.**  
Chemistry and Application of Ozone and Ultraviolet Light for Water Reuse: Pilot Plant Demonstration,  
W85-05407 1810 5D

**ZEGER, S.**  
Comparison of Avoidance Responses of an Estuarine Fish, *Fundulus heteroclitus*, and Crustacean, *Palaemonetes pugio*, to Bis(Tri-N-Butyltin)Oxide,  
W85-06887 1812 5C

Effects of Organic and Inorganic Chemical Contaminants on Fertilization, Hatching Success, and Postlarval Survival of Striped Bass,  
W85-03225 1807 5C

**ZEGLERS, K.**  
Transportation of Water, Particulate and Dissolved Organic and Inorganic Matter between a Salt Marsh and the Ems-Dollard Estuary, The Netherlands,  
W85-02655 1805 2L

**ZEHL, T. G. JR.**  
Wastewater Disinfection with Bromine Chloride,  
W85-03273 1807 5D

**ZEIKUS, J. G.**  
Influence of pH on Terminal Carbon Metabolism in Anoxic Sediments from a Mildly Acidic Lake,  
W85-03735 1807 2H

**ZEKTSER, I. S.**  
Present Status of the Problem of Investigating the Interaction of Groundwaters and Seawaters,  
W85-04144 1808 2F

**ZELENSKY, I.**  
Determination of Inorganic Anions in River Waters by Column-Coupling Capillary Isotachophoresis,  
W85-02304 1805 7B

**ZELLER, S.**  
New Mexico's Water Exportation Statute: Will it Float,  
W85-04189 1808 6D

**ZELLMAN, K.**  
Demands Placed on Processing Plants by Developments in Legislation for the Protection of Water (Anforderungen an verfahrenstechnische Anlagen durch die Weiterentwicklung der Gewässerschutz-Vorschriften),  
W85-05982 1811 6E

**ZELLMER, B. J.**  
Marsh and Wetland Study, (Fox River Valley, Wis.),  
W85-00831 1802 2H

**ZELLWEGER, G. W.**  
Interactions of Solutes and Streambed Sediment; 1. An Experimental Analysis of Cation and Anion Transport in a Mountain Stream,  
W85-03985 1808 2K

Transport and Concentration Controls for Chloride, Strontium, Potassium and Lead in *Uvas Creek*, a Small Cobble-Bed Stream in Santa Clara County, California, U.S.A.; 1. Conceptual Model,  
W85-04270 1808 2K

**ZEMLIN, R.**  
Intensification of Wastewater and Sludge Treatment Processes Through Utilization of the Energy Potential of Wastewater (Intensivierung der Abwasser- und Schlammbehandlungsprozesse durch Nutzung des Eigenenergiopotentials der Abwasser),  
W85-01970 1804 5D

**ZEMLYANAYA, N. V.**  
Investigation of the Process of Initial Dilution of Wastewaters in Shallow Seas,  
W85-04132 1808 5E

**ZENKI, M.**  
Determination of Nitrate in Natural Waters by Flow-Injection Analysis,  
W85-03720 1807 5A

**ZEPP, R. G.**  
Dynamics of Pollutant Photoreactions in the Hydrosphere,  
W85-03281 1807 5B

Photochemistry of Natural Waters,  
W85-03660 1807 2K

**ZESCHMAR, R.**  
Determination of Organohalogenic Acids in Water Samples (Bestimmung Halogenorganischer Säuren in Wasserproben),  
W85-01663 1804 5A

Pollution on the River Rhine with Halogenated Organic Compounds; an Investigation During a 'Fliessende Welle',  
W85-04360 1808 5A

**ZETTWOCH, D. D.**  
Problems of Rising Ground-Water Levels in Urban Areas with Special Reference to the Louisville, Kentucky Area,  
W85-00027 1801 4B

**ZEVENBERGEN, L. W.**  
Estimating Mean Velocity in Mountain Rivers,  
W85-06038 1811 2E

**ZHANG, G.**  
Technique for Estimating Sludge Compactability in Centrifugal Dewatering,  
W85-04286 1808 5D

**ZHANG, S.**  
Determination of Trace Amounts of Heavy Metals in Waters by a Flow-Injection System Including Ion-Exchange Preconcentration and Flame Atomic Absorption Spectrometric Detection,  
W85-04653 1809 5A

**ZHANG, X.**  
Relationships Between Arsenic and Other Elements (Iron, Aluminium, Manganese etc) in Surface Sediments of Bohai Bay (in Chinese),  
W85-04835 1809 2K

**ZHANG, Y.**  
Karst Development and the Distribution of Karst Drainage Systems in Dejiang, Guizhou Province, China,  
W85-00001 1801 2G

**ZHEBELEV, YU. A.**  
Experience in the Operation of Hydraulic Structures and Equipment of Hydroelectric Stations,  
W85-05825 1810 8D

Experience in the Operation of Hydraulic Structures and Equipment of Hydroelectric Stations; Left-Bank Dam of the Bratsk Hydroelectric Station,  
W85-05990 1811 8D

**ZHELEZNYAK, I. A.**  
Method of Calculating the Spring Flood Hydrograph,  
W85-04150 1808 2E

**ZHENG, J.**  
Nitrogen Migration in Zhujiang River (in Chinese),  
W85-06010 1811 5B

**ZHENG, L.**  
Reverse Osmosis Membrane Research in China,  
W85-06694 1812 3A

**ZHENG, N.**  
Medium and Small Masonry Arch Dams in China,  
W85-04950 1809 8A

**ZHENG, X.**  
Salt Lakes and Their Origins in Xinjiang, China (in Chinese),  
W85-02383 1805 2H

AUTHOR INDEX

ZUR, B.

**ZHIRKEVICH, A. N.**  
On-Site Observations at the Arbashi Hydroelectric Station,  
W85-00448 1801 8A

**ZHIVOTOVSKII, B. A.**  
Use of Swirled Flows in Tunnel Spillways,  
W85-06711 1812 8B

**ZHONG, W.-Z.**  
Hydrolysis of Aldicarb, Aldicarb Sulfoxide, and  
Aldicarb Sulfone at Parts per Billion Levels in  
Aqueous Mediums,  
W85-02720 1806 5B

Quantitative Determination of ppb Levels of  
Carbamate Pesticide in Water by Capillary Gas  
Chromatography,  
W85-01747 1804 5A

**ZHU, X.**  
Geochemistry of the Sediment Interstitial Water  
in the Adjacent Sea Area to the Changjiang  
River Estuary,  
W85-01048 1802 2L

**ZHUK, V. A.**  
Regionalization of Continents According to the  
Character of the Annual Distribution of River  
Runoff,  
W85-04091 1808 2E

**ZHUKINSKII, V. N.**  
Hydrobiological Aspects of Ecological Substitution  
of Interbasin Water Transfers,  
W85-04099 1808 5G

**ZHUKOV, YU. K.**  
Improvement of Water Accounting at Pumping  
Stations,  
W85-00464 1801 6F

**ZHUPANENKO, R. P.**  
Evaluation of Saprobic Character of Certain  
Small Reservoirs of the Ukraine for Phytoplankton  
(Otsenka Saprobnosti Nekotorykh Malykh  
Vokzhranilishch Ukrayny po Ritoplanktonu),  
W85-06475 1812 5C

**ZHUSKOV, YU. K.**  
Use of Simplified On-Site Characteristics when  
Automating Water Accounting at Hydraulic  
Structures,  
W85-00497 1801 4A

**ZICKEFOOSE, C. S.**  
Achieving Wastewater Compliance with Reduced  
Grant Support,  
W85-02582 1805 5D

**ZIDEK, V.**  
Xylem Water Flow in a Crack Willow Tree  
(*Salix fragilis* L.) in Relation to Diurnal Changes  
of Environment,  
W85-02900 1806 2I

**ZIELKE, W.**  
Two-Dimensional HN-Models of Flood Discharge  
in Rivers with Flood Plains, (Zweidimensionale  
HN-Modelle des Hochwasserabflusses in Flussen mit Vorlandern),  
W85-03449 1807 2E

**ZIEMAN, J.**  
Role of Tall and Medium *Spartina alterniflora*  
Zones in the Processing of Nutrients in Tidal  
Water,  
W85-02287 1805 2H

**ZIJL, W.**  
Solution of Surface Water Flow Equations  
Using Clebsch Variables,  
W85-03565 1807 2E

**ZIKA, R. G.**  
Bromide-Oxidation Interactions and THM Formation:  
A Literature Review,  
W85-06490 1812 5B

**ZILBERMAN, D.**  
Solar Energy and Hydroelectric Power Generation  
in the Dead Sea: A Dynamic Analysis,  
W85-03548 1807 6B

**ZILTENER, J.**  
Automatic Data Collection for Concrete and  
Earth Dams,  
W85-01256 1803 7B

**ZIMMERMAN, D. E.**  
Hydrogeochemical Investigation of Thermal  
Springs in the Black Canyon-Hoover Dam Area,  
Nevada and Arizona,  
W85-01804 1804 2K

**ZIMMERMAN, M. J.**  
Modeling Chemical Water Quality in Reservoirs,  
W85-02624 1805 5C

**ZIMMERMANN, R.**  
Degradation of Macromolecular Organic Compounds  
in a Tropical Lagoon (Cienaga Grande,  
Colombia) and its Ecological Significance,  
W85-04907 1809 2L

**ZIMMERMANN, U.**  
Turbidity Currents in Lakes: Oxygen-Input by  
Underflowing River Water (Trubestrome in  
Seen Sauerstoffeintrag Durch Grundnah  
Eingeschichtetes Flusswasser),  
W85-04073 1808 2H

**ZINGALES, F.**  
Conceptual Model of Unit-Mass Response Function  
for Nonpoint Source Pollutant Runoff,  
W85-05872 1811 5B

**ZINGDE, M. D.**  
Behaviour of Boron, Calcium and Magnesium in  
a Polluted Estuary,  
W85-00668 1802 5B

**ZINGMARK, R. G.**  
Oyster Reefs as Processors of Estuarine Materials,  
W85-04483 1809 2L

**ZIPPE, H. J.**  
Turbulent Boundary-Layer Flow Over Permeable  
and Non-Permeable Rough Surfaces  
(Couche Limite Turbulente Sur Des Surfaces  
Rugueuses Permeables Et Non Permeables),  
W85-01231 1803 2E

**ZIPSER, R. A.**  
Oklahoma's Reach to the Clouds,  
W85-04208 1808 3B

**ZIRJACKS, W. L.**  
Underground Utilities in Barrow, Alaska,  
W85-04925 1809 6A

**ZIRSCHKY, J.**  
Overland Flow Wastewater Treatment at  
Easley, South Carolina,  
W85-07050 1812 5D

**ZISKOWSKI, J. J.**  
Gill Fouling and Parasitism in the Rock Crab,  
*Cancer irroratus* Say,  
W85-05893 1811 5C

**ZOBECK, T. M.**  
Relation of Water Table Depth and Soil Morphology  
in Two Clay-Rich Soils of Northwest Ohio,  
W85-04052 1808 2G

**ZOETEMAN, B. C. J.**  
Consumer Panels Monitor Taste of Water in  
Rotterdam,  
W85-00708 1802 5F

Mutagenic Activity Associated with By-Products  
of Drinking Water Disinfection by Chlorine,  
Chlorine Dioxide, Ozone and UV-Irradiation,  
W85-01216 1803 5C

**ZOHARY, T.**  
Microcysts aeruginosa and Underwater Light  
Attenuation in a Hypertrophic Lake (Hartbeespoort  
Dam, South Africa),  
W85-03740 1807 2H

**ZOLTOAREVA, V. I.**  
Effect of Water Reaction (pH) on Individual  
Members of Zooplankton and Macrofauna in  
Connection with Industrial Pollution of Water  
Bodies,  
W85-04133 1808 5C

**ZOLTAI, T.**  
Identification of Asbestos and Glass Fibers in  
Municipal Sewage Sludges,  
W85-05008 1810 5A

**ZOLTEK, J.**  
Evapotranspiration of a Florida, U.S.A., Freshwater  
Wetland,  
W85-03759 1807 2D

**ZONGYAN, S.**  
Horizontal Frost Heave Thrust Acting on Buttress  
Constructions,  
W85-00274 1801 8D

**ZSCHUPPE, K. H.**  
Standardization of Methods of Analysis for  
Heavy Metals in Sediments,  
W85-02104 1804 5A

**ZUBAREVICH, V. L.**  
Fine Structure of the Vertical Distribution of  
Organic and Inorganic Phosphorus (Tonkaya Strukura Vertikal'nogo Raspredeleniya Organicheskogo i Mineral'nogo Fosfora),  
W85-06457 1812 2H

**ZUBER, A.**  
New Models for Interpreting Data on the Content  
of Environmental Tracers in Groundwaters  
and Their Combined Use,  
W85-04135 1808 2F

Stable-Isotope Method for Determining the  
Water Balance of Lakes,  
W85-04136 1808 2H

**ZUBILLAGA, H. V.**  
Behaviour of Hexachlorocyclohexane Isomers  
and Zn, Cu and Cd in the Freshwater-Seawater  
Mixing Area,  
W85-02760 1806 5B

**ZUCKER, C. L.**  
Inventories and Sorption-Desorption Trends of  
Radiocesium and Radiocobalt in James River  
Estuary Sediments,  
W85-04601 1809 5B

**ZUIDEMA, P.**  
Rainfall-Runoff Model for Small Basins (Ein  
Niederschlag/Abfluss-Modell fur Kleine Einzugsgebiete),  
W85-01268 1803 2A

**ZUKOV, G.**  
Methodology for Pollution Control Decision  
Analysis,  
W85-04582 1809 5G

**ZUNCKEL, A. F. H.**  
Setting of Water Quality Standards - South African  
Experience and Viewpoints,  
W85-01400 1803 6E

**ZUPAN, M.**  
Effect on Water Chemistry and Phytoplankton  
of Artificial Inflow of the River Radovna into  
Lake Bled (Yugoslavia),  
W85-01473 1803 5G

**ZUR, B.**  
Diurnal Changes in the Instantaneous Water Use  
Efficiency of a Soybean Crop,  
W85-06203 1812 2D

**AUTHOR INDEX**

**ZUR, B.**

Simulation of Possible Adaptive Mechanisms in  
Crops Subjected to Water Stress,  
W85-05170 1810 2I

**ZURCHER, F.**  
Sulphate and Nitrate Concentrations in Snow  
From South Greenland 1895-1978,  
W85-06801 1812 5B

**ZUREK, R.**  
Effect of Suspended Materials on Zooplankton,  
2. Laboratory Investigations of Daphnia hyalina  
Leydig,  
W85-02511 1805 5C

**ZURNIDORFER, E. A.**  
Water Available for Runoff for 1 to 15 Days  
Duration and Return Periods of 2 to 100 Years  
for Selected Agricultural Regions in the Northwest  
United States,  
W85-05363 1810 2B

**ZVEREVA, V. A.**  
Investigation of the Process of Initial Dilution of  
Wastewaters in Shallow Seas,  
W85-04132 1808 5E

**ZWERNER, D. E.**  
Effects of Contaminated Sediments and Sediment-Exposed Effluent Water on an Estuarine  
Fish: Acute Toxicity,  
W85-05892 1811 5C

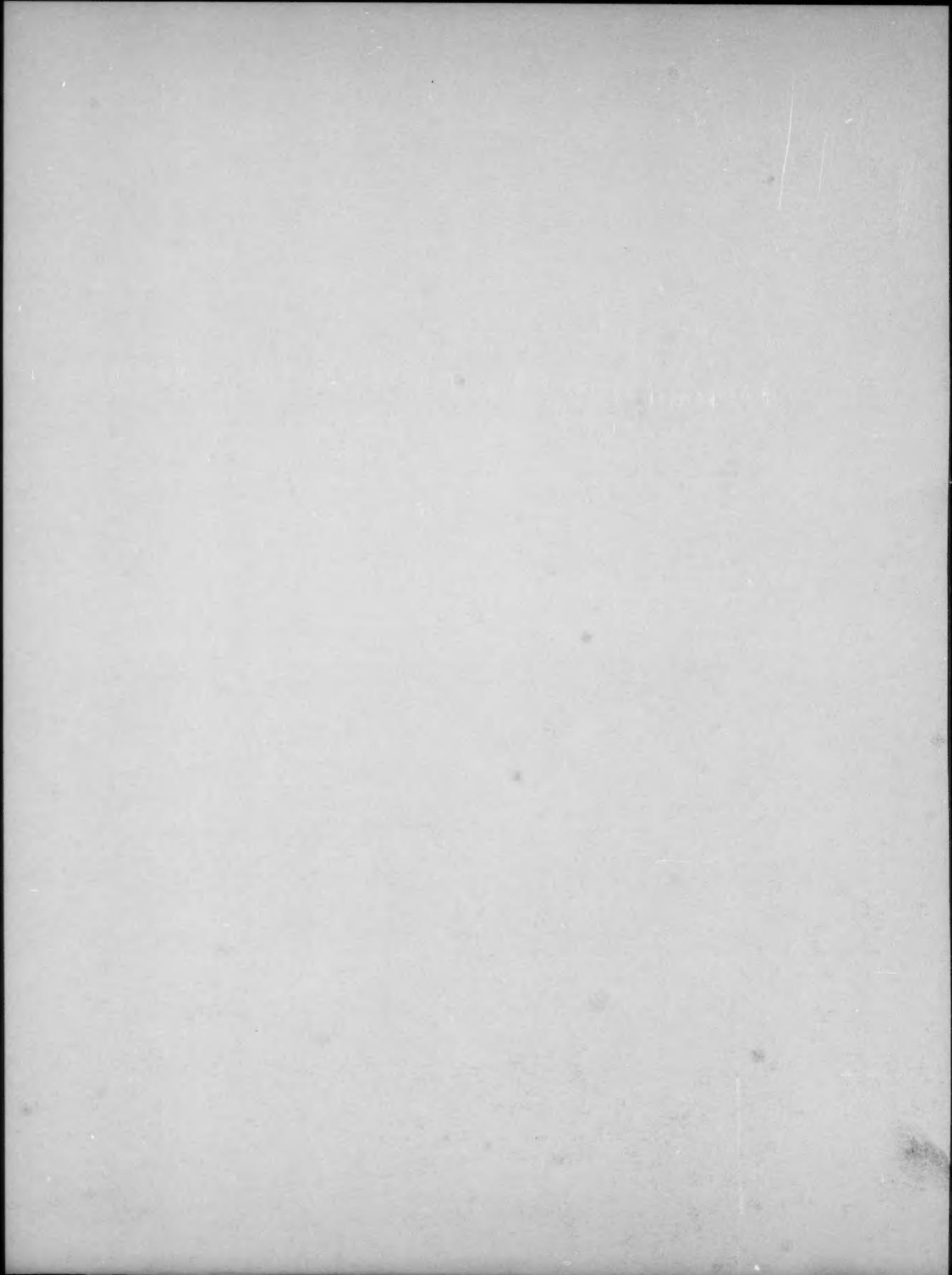
**ZWICK, P.**  
Stability and Changes of Biomass of Emerging  
Insects and Their Possible Causes,  
W85-05684 1810 2H

**ZWOLINSKI, G.**  
Bacterial Removal of Mercury from Sewage,  
W85-04114 1808 5D

**ZYRYANOV, A. G.**  
On-Site Observations at the Atbashi Hydroelectric  
Station,  
W85-00448 1801 8A

**ZYTARUK, B. G.**  
Distribution and Concentrations of Naturally-  
Occurring Radionuclides in Sediments in a Uranium  
Mining Area of Northern Saskatchewan,  
Canada,  
W85-02083 1804 5B

**PA-293**



## ORGANIZATIONAL INDEX

<b>36635 FAIRFIELD ROAD, INGLESIDE, IL 60041.</b>				
Migration and Attenuation of Selected Organics in a Sandy Aquifer - A Natural Gradient Experiment, W85-04635	1809	5B		
<b>9 EYLUL UNIV., IZMIR (TURKEY). DEPT. OF ENGINEERING AND ARCHITECTURE.</b> Turkish Dam Impounds World's Largest Karst Spring, W85-04033	1808	8A		
<b>AALBORG UNIVERSITETSCENTER (DENMARK). DEPT. OF CIVIL ENGINEERING.</b> Fate of Phosphorus and Nitrogen in Ponds Receiving Highway Runoff, W85-00748	1802	5B		
<b>AARHUS UNIV. (DENMARK). BOTANICAL INST.</b> Seasonal and Environmental Variation in Cadmium, Copper, Lead and Zinc Concentrations in Elggrass ( <i>Zostera marina L.</i> ) in the Limfjord, Denmark, W85-01080	1802	2L		
Dissolved Organic Carbon in Danish Lakes: Concentration, Composition, and Lability, W85-04540	1809	5C		
<b>AARHUS UNIV. (DENMARK). INST. OF ECOLOGY AND GENETICS.</b> Diel Variation in Concentration, Assimilation and Respiration of Dissolved Free Amino Acids in Relation to Planktonic Primary and Secondary Production in Two Eutrophic Lakes, W85-00994	1802	2H		
<b>AARHUS UNIV. (DENMARK). INST. OF HYGIENE.</b> Bacteria in Works and Mains from Ground Water Supplies, W85-02001	1804	5F		
<b>ABCOR, INC., WILMINGTON, MA.</b> Fermentation Process for Dilute Food and Dairy Wastes, W85-05257	1810	5D		
Membrane-Enhanced Anaerobic Digesters, W85-05282	1810	5D		
<b>ABERDEEN UNIV. (SCOTLAND). DEPT. OF BOTANY.</b> Ecological Effects of Heather Burning; I. Water Infiltration, Moisture Retention and Porosity of Surface Soil, W85-03739	1807	2G		
<b>ABO AKADEMI, TURKU (FINLAND). LAB. OF FOREST PRODUCTS CHEMISTRY.</b> Method for Total Organic Chlorine Determination in Bleach Plant Recipient Waters, W85-01962	1804	5A		
<b>AC BIOTECHNICS A.B., ARLOEV (SWEDEN).</b> Process Control in Anaerobic Wastewater Treatment, W85-07013	1812	5D		
<b>ACADEMIA SINICA, BEIJING (CHINA). INST. OF GEOGRAPHY.</b> Karst Development and the Distribution of Karst Drainage Systems in Dejiang, Guizhou Province, China, W85-00001	1801	2G		
<b>ACADEMIA SINICA, DALIAN (CHINA). DALIAN INST. OF CHEMICAL PHYSICS.</b> Reverse Osmosis Membrane Research in China, W85-06694	1812	3A		
<b>ACADEMIA SINICA, GUANGZHOU (CHINA). SOUTH CHINA SEA INST. OF OCEANOLOGY.</b> Nitrogen Migration in Zhujiang River (in Chinese), W85-06010	1811	5B		
<b>ACADEMIA SINICA, LANZHOU (CHINA). LANZHOU INST. OF GLACIOLOGY AND CRYOPEDOLOGY.</b> Horizontal Frost Heave Thrust Acting on Buttress Constructions, W85-00274	1801	8D		
Glaciers in the North-Eastern Part of the Ch'ing-Hai-Hsi-Tsang (Qinghai-Xizang) Plateau (Tibet) and their Variations, W85-03342	1807	2C		
<b>ACADEMIA SINICA, QINGDAO (CHINA). INST. OF OCEANOLOGY.</b> Relationships Between Arsenic and Other Elements (Iron, Aluminium, Manganese etc) in Surface Sediments of Bohai Bay (in Chinese), W85-04835	1809	2K		
<b>ACADEMIA SINICA, SHENYANG (CHINA). INST. OF FORESTRY AND SOIL SCIENCE.</b> Determination of Trace Amounts of Heavy Metals in Waters by a Flow-Injection System Including Ion-Exchange Preconcentration and Flame Atomic Absorption Spectrometric Detection, W85-04653	1809	5A		
<b>ACADEMIE D'AGRICULTURE DE FRANCE, PARIS.</b> Development of Hydrological Research in France Relative to the Influence of Man on Water Cycles and the Forecasting of Floods (Le Developpement de la recherche hydrologique en France en relation avec l'influence de l'homme sur le cycle de l'eau et la prevision des crues), W85-03585	1807	9C		
<b>ACADEMY OF MINING AND METALLURGY, KRAKOW (POLAND). INST. OF GEOLOGY AND MINERAL DEPOSITS.</b> Hydrogeological Properties of the Zalas Porphyry Laccolith Near Krzeszowice (Wlasnosci Hydrogeologiczne Porfirow Lakkolitu Zalskiego Kolo Krzeszowic), W85-05858	1811	2F		
<b>ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, AVONDALE, PA. STROUD WATER RESEARCH CENTER.</b> Diel Fluctuations of DOC Generated by Algae in a Piedmont Stream, W85-01602	1803	2H		
Benthic Bacterial Biomass Supported by Streamwater Dissolved Organic Matter, W85-04088	1808	2H		
Benthic Community Metabolism in Four Temperate Stream Systems: An Inter-Biome Comparison and Evaluation of the River Continuum Concept, W85-06792	1812	2H		
<b>ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, BENEDICT, MD. BENEDICT ESTUARINE RESEARCH LAB.</b> Adaptive Behavior of Euryhaline Phytoplankton Communities to Arsenic Stress, W85-06879	1812	5C		
<b>ACADIA UNIV., WOLFVILLE (NOVA SCOTIA). DEPT. OF BIOLOGY.</b> Environmental Implications of the Fundy Bay Tidal Power Development, W85-06127	1811	6G		
<b>ACRES CONSULTING SERVICES LTD., TORONTO (ONTARIO).</b> Trends in Pumped-Storage Development, W85-02672	1805	8A		
<b>ADDIS ABABA UNIV. (ETHIOPIA).</b> Seasonal and Comparative Aspects of Chemical Stratification in Some Tropical Crater Lakes, Ethiopia, W85-03683	1807	2H		
<b>ADELAIDE UNIV. (AUSTRALIA). DEPT. OF APPLIED MATHEMATICS.</b> Physical Processes and Pollution in the Waters of Spencer Gulf, W85-04763	1809	2L		
<b>ADELAIDE UNIV. (AUSTRALIA). DEPT. OF CIVIL ENGINEERING.</b> Pricing and Expansion of a Water Supply System, W85-04241	1808	6C		
Approximate Method for the Analysis of Uncertainty in Benefit-Cost Ratios, W85-05789	1810	6B		
<b>ADELAIDE UNIV. (AUSTRALIA). DEPT. OF GEOLOGY AND MINERALOGY.</b> Regional Variation in the Distribution of Trace Metals in Modern Intertidal Sediments of Northern Spencer Gulf, South Australia, W85-04764	1809	5B		
<b>ADELAIDE UNIV. (AUSTRALIA). DEPT. OF MATHEMATICAL PHYSICS.</b> Fluid Transport Processes in Upper Spencer Gulf, W85-04762	1809	2L		
<b>ADELAIDE UNIV. (AUSTRALIA). DEPT. OF ZOOLOGY.</b> Limnology of Lake Alexandrina, River Murray, South Australia, and the Effects of Nutrients and Light on the Phytoplankton, W85-03242	1807	2H		
Seasonal Studies on the Zooplankton Community of Lake Alexandrina, River Murray, South Australia, and the Role of Turbidity in Determining Zooplankton Community Structure, W85-03243	1807	2H		
<b>ADI LTD., FREDERICTON (NEW BRUNSWICK).</b> Anaerobic Treatment Key to Pollution Control and Solids Disposal with Energy Recovery for a Food Processor, W85-05229	1810	5D		
Anaerobic Pretreatment Facility also Provides Sludge Disposal Capability and Source of Renewable Energy for Food Processor, W85-05566	1810	5D		
<b>ADVANCED DRAINAGE SYSTEMS, INC., COLUMBUS, OH.</b> Storm Water Detention/Retention: A New Solution, W85-00737	1802	4A		
<b>AGRICULTURAL RESEARCH AND EDUCATION CENTER, LAKE ALFRED, FL.</b> Fish Mortality Following Application of Phenothiazine to Florida Citrus, W85-00135	1801	5C		
<b>AGRICULTURAL RESEARCH AND EDUCATION CENTER, SANFORD, FL.</b> Nitrogen and Phosphorus Interchange Between Sediments and Overlying Water of a Wastewater Retention Pond, W85-00410	1801	5D		
Soluble Phosphorus Release from Organic Soils, W85-06635	1812	5B		
<b>AGRICULTURAL RESEARCH COUNCIL, WANTAGE (ENGLAND). LETCOMBE LAB.</b> Effects of Single and Multiple Waterloggings on the Growth and Yield of Winter Wheat on a Clay Soil, W85-06136	1811	2I		

## ORGANIZATIONAL INDEX

### **AGRICULTURAL RESEARCH ORGANIZATION, BET-DAGAN (ISRAEL).**

**AGRICULTURAL RESEARCH  
ORGANIZATION, BET-DAGAN (ISRAEL).**  
Effect of Raindrop Impact Energy and Water  
Salinity on Infiltration Rates of Sodic Soils,  
W85-05188 1810 2G

**AGRICULTURAL RESEARCH  
ORGANIZATION, BET-DAGAN (ISRAEL).  
DEPT. OF SOIL RESIDUES CHEMISTRY.**  
Sorption of Organic Substances by Soils and  
Sediments,  
W85-01442 1803 5B

**AGRICULTURAL RESEARCH  
ORGANIZATION, BET-DAGAN (ISRAEL).  
DIV. OF ENVIRONMENTAL PHYSIOLOGY.**  
Effect of High Sodium Irrigation Water on Soil  
Salinity and Yield of Mature Grapefruit Or-  
chard,  
W85-05935 1811 3C

**AGRICULTURAL RESEARCH  
ORGANIZATION, BET-DAGAN (ISRAEL).  
DIV. OF SOIL PHYSICS.**  
Geostatistical Approach to Solute Transport in  
Heterogeneous Fields and Its Applications to  
Salinity Management,  
W85-02668 1805 5B

Leaching and Water Requirement Studies in a  
Gypsiferous Desert Soil,  
W85-06540 1812 3F

**AGRICULTURAL RESEARCH  
ORGANIZATION, BET-DAGAN (ISRAEL).  
VOLCANI CENTER.**  
Statistical Analysis of Crop Yield-Soil Water  
Relationships in Heterogeneous Soil under  
Trickle Irrigation,  
W85-03966 1808 2A

Effect of Water Quality and Drying on Soil  
Crust Properties,  
W85-05189 1810 2G

**AGRICULTURAL RESEARCH SERVICE,  
AKRON, CO.**  
Saline-Seep Reclamation in the Northern Great  
Plains,  
W85-03384 1807 4B

**AGRICULTURAL RESEARCH SERVICE,  
BECKLEY, WV. APPALACHIAN SOIL AND  
WATER CONSERVATION RESEARCH LAB.**  
Estimation of Daily Temperature Means Using  
Elevation and Latitude in Mountainous Terrain,  
W85-02986 1806 2A

**AGRICULTURAL RESEARCH SERVICE,  
BELTSVILLE, MD.**  
Sediment, Season, and Salinity Effects on Phos-  
phorus Concentrations in an Estuary,  
W85-06727 1812 5C

**AGRICULTURAL RESEARCH SERVICE,  
BELTSVILLE, MD. BIOLOGICAL WASTE  
MANAGEMENT AND ORGANIC RESOURCES  
LAB.**  
Effect of Sludge Quality and Rate, Soil pH, and  
Time on Heavy Metal Residues in Leafy Vegetables,  
W85-05382 1810 5E

**AGRICULTURAL RESEARCH SERVICE,  
BELTSVILLE, MD. HYDROLOGY LAB.**  
Statistical Methods of Storm Analysis,  
W85-01680 1804 2B

Hydraulic Properties of Some Soils with Para-  
lithic Contacts,  
W85-03965 1808 2G

Comparison of Three Methods for Measuring  
Recent Rates of Sediment Accumulation,  
W85-06244 1812 2J

**AGRICULTURAL RESEARCH SERVICE,  
BELTSVILLE, MD. PESTICIDE  
DEGRADATION LAB.**  
Pesticide Availability Influence of Sediment in a  
Simulated Aquatic Environment,  
W85-06783 1812 5B

**AGRICULTURAL RESEARCH SERVICE,  
BOISE, ID. NORTHWEST WATERSHED  
RESEARCH CENTER.**  
Testing of the SPUR Hydrology Component on  
Rangeland Watersheds in Southwest Idaho,  
W85-03395 1807 2E

Rangeland Erosion Measurements for the  
USLE,  
W85-04728 1809 2J

Annual and Monthly Precipitation Generation in  
Idaho,  
W85-06089 1811 2B

**AGRICULTURAL RESEARCH SERVICE,  
BUSHLAND, TX.**  
Automated Weather Data Collection for Re-  
search on Irrigation Scheduling,  
W85-01181 1803 7B

Evaluation of Cotton Canopy Temperature to  
Detect Crop Water Stress,  
W85-03368 1807 2I

**AGRICULTURAL RESEARCH SERVICE,  
BUSHLAND, TX. CONSERVATION AND  
PRODUCTION LAB.**  
Irrigation Pumping with Wind Energy Only,  
W85-00943 1802 8C

Irrigation Pumping with Wind Energy - Electri-  
cal vs. Mechanical,  
W85-01186 1803 8C

Water Use Efficiency of Narrow Row Cotton,  
W85-05918 1811 3F

Microclimate and Crop Responses to Center  
Pivot Sprinkler and to Surface Irrigation,  
W85-05922 1811 3F

**AGRICULTURAL RESEARCH SERVICE,  
BUSHLAND, TX. CONSERVATION AND  
PRODUCTION RESEARCH LAB.**  
Runoff, Soil, and Nutrient Losses from Range-  
land and Dry-Farmed Cropland in the Southern  
High Plains,  
W85-05970 1811 5B

**AGRICULTURAL RESEARCH SERVICE,  
COLUMBIA, MO.**  
Dynamic Simulation of Sediment Discharge  
from Agricultural Watersheds,  
W85-03401 1807 2J

**AGRICULTURAL RESEARCH SERVICE,  
COLUMBIA, MO. NORTH CENTRAL  
REGION.**  
Dynamic Flow Resistance for Hydrologic Simu-  
lations,  
W85-03785 1808 2J

**AGRICULTURAL RESEARCH SERVICE,  
COLUMBIA, MO. NORTH CENTRAL  
WATERSHED RESEARCH CENTER.**  
Estimating Labile and Dissolved Inorganic  
Phosphate Concentrations in Surface Runoff,  
W85-03860 1808 5B

Convolution and the Kinematic Wave Equa-  
tions,  
W85-04279 1808 2E

**AGRICULTURAL RESEARCH SERVICE,  
COLUMBIA, MO. NORTH CENTRAL  
WATERSHED RESEARCH UNIT.**  
Dissolved Nitrogen and Phosphorus in Runoff  
from Watersheds in Conservation and Conven-  
tional Tillage,  
W85-05968 1811 5B

**AGRICULTURAL RESEARCH SERVICE,  
COLUMBUS, OH.**  
Drainage-Tillage Interaction on Clermont Soil,  
W85-01184 1803 2G

**AGRICULTURAL RESEARCH SERVICE,  
COSHOCTON, OH.**  
Subsoil Characteristics Influence Hydrologic  
Response to No-Tillage,  
W85-03396 1807 3F

**AGRICULTURAL RESEARCH SERVICE,  
COUNCIL BLUFFS, IA.**  
Soil Moisture Responses to Cropping and Till-  
age on Western Iowa Loess Soils,  
W85-03391 1807 2G

**AGRICULTURAL RESEARCH SERVICE,  
DURANT, OK. WATER QUALITY AND  
WATERSHED RESEARCH LAB.**  
Scaling Soil Water Properties and Infiltration  
Modeling,  
W85-02867 1806 2G

Interflow of Water and Tracer Chemical on  
Sloping Field Plots with Exposed Seepage  
Faces,  
W85-06050 1811 5B

**AGRICULTURAL RESEARCH SERVICE,  
FLORENCE, SC.**  
Stream Water Levels Affect Field Water Tables  
and Corn Yields,  
W85-04726 1809 2F

**AGRICULTURAL RESEARCH SERVICE,  
FORT COLLINS, CO.**  
Runoff and Erosion Response of Reclaimed Sur-  
faces,  
W85-02449 1805 4D

Integrated Water-Energy Management System  
for Center Pivot Irrigation: Functional Require-  
ments,  
W85-04742 1809 7C

Integrated Water-Energy Management System  
for Center Pivot Irrigation: Implementation,  
W85-04743 1809 7C

**AGRICULTURAL RESEARCH SERVICE,  
FORT COLLINS, CO. HYDRO-ECO SYSTEM  
RESEARCH UNIT.**  
Interaction Between Riparian Vegetation, Water  
Temperature, and Salmonid Habitat in the Tu-  
cannon River,  
W85-06239 1812 2H

**AGRICULTURAL RESEARCH SERVICE,  
FORT PIERCE, FL. SOUTHEAST  
WATERSHED RESEARCH LAB.**  
Estimating the Effectiveness of Vegetated  
Floodplains/Wetlands as Nitrate-Nitrite and  
Orthophosphorus Filters,  
W85-06634 1812 5B

**AGRICULTURAL RESEARCH SERVICE,  
FRESNO, CA.**  
Soil Sensor Control of High-Frequency Irriga-  
tion Systems,  
W85-01182 1803 3F

Response of Cotton Water Stress Indicators to  
Soil Salinity,  
W85-05164 1810 2I

**AGRICULTURAL RESEARCH SERVICE,  
FRESNO, CA. WATER MANAGEMENT  
RESEARCH LAB.**  
Spectral Analysis of Water Advance in Level  
Basins,  
W85-03380 1807 2G

Evaluation Technique for Ground Water Qual-  
ity Beneath Urban Runoff Retention and Perco-  
lation Basins,  
W85-04417 1809 2G

## ORGANIZATIONAL INDEX

### AGRICULTURAL RESEARCH SERVICE, WASHINGTON, DC.

#### **AGRICULTURAL RESEARCH SERVICE, KIMBERLY, ID. SNAKE RIVER CONSERVATION RESEARCH CENTER.**

Amount of Soil Ice Predicted from Weather Observations, W85-01072 1802 2G

Soil Cohesion as Affected by Time and Water Content, W85-02871 1806 2G

Cablegation: IV. The Bypass Method and Cutoff Outlets to Improve Water Distribution, W85-03382 1807 3F

Cablegation: V. Dimensionless Design Relationships, W85-03383 1807 3F

Surface Films Affecting Velocity Profiles of Slowly Moving Water in Open Channels, W85-05169 1810 2E

Effect of Furrow Irrigation Erosion on Crop Productivity, W85-05192 1810 6G

#### **AGRICULTURAL RESEARCH SERVICE, LUBBOCK, TX. PLANT STRESS AND WATER CONSERVATION RESEARCH UNIT.**

Evaluation of Canopy Temperature-Evapotranspiration Models over Various Crops, W85-06196 1812 2D

#### **AGRICULTURAL RESEARCH SERVICE, MANDAN, ND. NORTHERN GREAT PLAINS RESEARCH CENTER.**

Water-Table Contribution to Alfalfa Evapotranspiration and Yields in Sandy Soils, W85-04727 1809 2D

#### **AGRICULTURAL RESEARCH SERVICE, MORRIS, MN. NORTH CENTRAL SOIL CONSERVATION RESEARCH CENTER.**

Depressional Storage on Tilled Soil Surfaces, W85-03376 1807 2A

Tilled Soil Subsidence During Repeated Wetting, W85-03377 1807 2G

#### **AGRICULTURAL RESEARCH SERVICE, ORONO, ME. NEW ENGLAND PLANT, SOIL AND WATER LAB.**

Alfalfa Growth and Soil Oxygen Diffusion as Influenced by Depth to Water Table, W85-02877 1806 2G

#### **AGRICULTURAL RESEARCH SERVICE, OXFORD, MS.**

Plant Nutrient Yields in Runoff from a Mississippi Delta Watershed, W85-03397 1807 2J

#### **AGRICULTURAL RESEARCH SERVICE, OXFORD, MS. SEDIMENTATION LAB.**

Susceptibility of Agricultural Soils to Interrill Erosion, W85-02876 1806 2J

Sediment Trap Efficiency of a Small Reservoir, W85-03352 1807 2J

Channel Cross-Section Changes in Mississippi's Goodwin Creek, W85-05967 1811 2J

Material and Site Controls of Stream Bank Vegetation, W85-06095 1811 2E

Channel Change Workshop Problem Number 3, Elk River, Kansas, W85-06354 1812 6G

#### **AGRICULTURAL RESEARCH SERVICE, PHILADELPHIA, PA. EASTERN REGIONAL RESEARCH CENTER.**

Anaerobic Treatment of Tannery Waste, W85-05554 1810 5D

#### **AGRICULTURAL RESEARCH SERVICE, PHOENIX, AZ. WATER CONSERVATION LAB.**

Design Considerations for Earth Linings for Seepage Control, W85-00329 1801 8D

Case for Carbon Dioxide, W85-01440 1803 4C

Rectangular Measuring Flumes for Lined and Earthen Channels, W85-01506 1803 8A

Evaluation of Some New Tracers for Soil Water Studies, W85-02869 1806 2G

Paraffin-Wax Water-Harvesting Soil Treatment Improved with Antistripping Agents, W85-03091 1806 3B

Hydraulic Properties of Stony Vadose Zones, W85-03149 1806 2F

Crop Water Stress Index, Soil Water, and Rubber Yield Relations for the Guayule Plant, W85-03361 1807 2I

Double-Bubbler Coupled with Pressure Transducers for Water Level Sensing, W85-03385 1807 7B

Portable RBC Flumes for Furrows and Earthen Channels, W85-03393 1807 7B

Comparison of Soil-Water Hysteresis Models, W85-04278 1808 2G

Using Soil Physical Properties to Estimate Hydraulic Conductivity, W85-04345 1808 2G

Consumptive Use of Water by Major Crops in the Southwestern United States, W85-05346 1810 2I

Water Management for Guayule Rubber Production, W85-06085 1811 3F

Multipurpose Head Detection and Monitoring Unit, W85-06094 1811 7B

Stability of Non-Water-Stressed Baselines, W85-06198 1812 2D

Stomatal Conductance and Photosynthesis in Water Hyacinth: Effects of Removing Water from Roots as Quantified by a Foliage-Temperature-Based Plant Water Stress Index, W85-06200 1812 2I

Quantifying Effects of Atmospheric CO<sub>2</sub> Enrichment on Stomatal Conductance and Evapotranspiration of Water Hyacinth via Infrared Thermometry, W85-06202 1812 2D

#### **AGRICULTURAL RESEARCH SERVICE, PROSSER, WA. IRRIGATED AGRICULTURE RESEARCH AND EXTENSION CENTER.**

Leaf Water Potentials for Management of High Frequency Irrigation on Apples, W85-01190 1803 3F

#### **AGRICULTURAL RESEARCH SERVICE, RIVERSIDE, CA. SALINITY LAB.**

Time-Domain Reflectometry: Simultaneous Measurement of Soil Water Content and Electrical Conductivity with a Single Probe, W85-00220 1801 7B

Minimizing Salt in Drain Water by Irrigation Management - Arizona Field Studies with Citrus, W85-03481 1807 3F

Minimizing Salt in Drain Water by Irrigation Management - Leaching Studies with Alfalfa, W85-03483 1807 3F

Salt Tolerance of Corn in the Sacramento-San Joaquin Delta of California, W85-05925 1811 3C

Time Domain Reflectometry Field Measurements of Soil Water Content and Electrical Conductivity, W85-06539 1812 2G

#### **AGRICULTURAL RESEARCH SERVICE, STONEVILLE, MS. SOUTHERN WEED SCIENCE LAB.**

Adsorption of Phosphate, Arsenate, Methanesulfonate, and Cacodylate by Lake and Stream Sediments: Comparisons with Soils, W85-01297 1803 5B

#### **AGRICULTURAL RESEARCH SERVICE, TEMPLE, TX.**

Neutron Meter Calibration and Error Control, W85-03375 1807 2G

#### **AGRICULTURAL RESEARCH SERVICE, TIFTON, GA. SOUTHEAST WATERSHED RESEARCH CENTER.**

Nutrient Budgets for Agricultural Watersheds in the Southeastern Coastal Plain, W85-04826 1809 6G

Managing Riparian Ecosystems to Control Non-point Pollution, W85-05956 1811 5G

Pesticide Pollution Probabilities, W85-06075 1811 5B

Adsorption-Desorption Kinetics of Atrazine and Linuron in Freshwater-Sediment Aqueous Slurries, W85-06624 1812 5B

#### **AGRICULTURAL RESEARCH SERVICE, TUCSON, AZ.**

Stochastic Model of Dimensionless Thunderstorm Rainfall, W85-06505 1812 2B

#### **AGRICULTURAL RESEARCH SERVICE, TUCSON, AZ. SOUTHWEST WATERSHED RESEARCH CENTER.**

Mapping Average Daily Pan Evaporation, W85-01516 1803 2D

Estimating Precipitation in Mountainous Regions, W85-03794 1808 2B

Identification of Water Sources Using Normalized Chemical Ion Balances: A Laboratory Test, W85-06045 1811 2K

#### **AGRICULTURAL RESEARCH SERVICE, UNIVERSITY PARK, PA. NORTHEAST WATERSHED RESEARCH CENTER.**

Quantitative Evaluation of Sediment Delivery Ratios, W85-04993 1810 2J

#### **AGRICULTURAL RESEARCH SERVICE, WASHINGTON, DC.**

Return Period Analysis of Minimum Events Using Sliding Polynomials, W85-01194 1803 6A

## ORGANIZATIONAL INDEX

### AGRICULTURAL RESEARCH SERVICE, WASHINGTON, DC.

WGEN: A Model for Generating Daily Weather Variables, W85-05129	1810	7C	AIR PRODUCTS AND CHEMICALS, INC., ALLENTOWN, PA. Biological Phosphorus and Nitrogen Removal Via the A/O Process: Recent Experience in The United States and United Kingdom, W85-03644	1807	5D	AKADEMIA ROLNICZO-TECHNICZNA, OLSZTYN-KORTOW (POLAND). DEPT. OF ECOLOGY AND FRESHWATER BIOLOGY. Some Ecological Effects of Artificial Circula- tion on the Phytoplankton, W85-06009	1811	5G
AGRICULTURAL RESEARCH SERVICE, WATKINSVILLE, GA. Conservation Practice Effects on Phosphorus Losses from Southern Piedmont Watersheds, W85-05969	1811	5B	AIRCO INDUSTRIAL GASES, MURRAY HILL, NJ. Oxygen Injection Cuts Odors, W85-04652	1809	5D	AKADEMIA ROLNICZO-TECHNICZNA, OLSZTYN-KORTOW (POLAND). INST. OF HYDROBIOLOGY AND WATER CONSERVATION. Structure of Benthofauna Aggregations in the Lotic Environment of the River Wel, Mazurian Lake District, W85-00225	1801	2H
AGRICULTURAL UNIV., WAGENINGEN (NETHERLANDS). DEPT. OF HYDRAULICS AND CATCHMENT HYDROLOGY. Wind Induced Diffusion in a Shallow Lake, A Case Study, W85-01763	1804	2H	AIX-MARSEILLE-1 UNIV. (FRANCE). Heavy Metals in a Contaminated Australian Es- tuary - Dispersion and Accumulation Trend, W85-03109	1806	5B	AKADEMIE DER LANDWIRTSCHAFTSWISSENSCHAFTEN DER DDR, HALLE/SAALE. INST. FUER LANDSCHAFTSFORSCHUNG UND NATURSCHUTZ. Bioindication for the Decrease in Nitrogen Loss and Nitrogen Pollution of the Waters (Bioindika- tion zur Verminderung von Stickstoffdungerver- lusten und der Stickstoffbelastung von Gewas- sern), W85-06260	1812	5G
AGRICULTURAL UNIV., WAGENINGEN (NETHERLANDS). DEPT. OF LAND AND WATER USE. Steady Two-Dimensional Groundwater Seep- age: Numerical Analysis in the Phi-, Psi-Plane, W85-01616	1803	2F	AIX-MARSEILLE-3 UNIV. (FRANCE). LAB. DE BIOLOGIE ANIMALE ET ECOLOGIE. Study of Periphyton in a Polluted Section of a Varoise River, the Argens. Spatial Evolution of the Algal Population During a Period of Intense Pollution (Etude du periphyton d'un secteur pollue d'une riviere varoise, l'Argens. Evolution spatiale du peuplement algal en periode d'intense pollution), W85-02327	1805	5C	AKADEMIE DER WISSENSCHAFTEN DER DDR, BERLIN. INST. FUER GEOGRAPHIE UND GEOEKOLOGIE. Rates of Primary Production, Respiration and Grazing in Accordance with the Balances of Energy and Entropy, W85-01110	1802	2H
AGRICULTURAL UNIV., WAGENINGEN (NETHERLANDS). DEPT. OF NATURE CONSERVATION. Relationship Between the Growth of Algae and Aquatic Macrophytes in Brackish Water, W85-05744	1810	5C	AIX-MARSEILLE-3 UNIV. (FRANCE). LAB. DE ZOOLOGIE MARINE. Impact of a Massive Domestic Pollution on the Biology and Morphometry of the Echinoid Par- acentrotus lividus: Preliminary Data (Impact de la pollution domestique sur la biologie et la morphometrie de l'Echinoide Paracentrotus livi- dus (Lamarck). Donnees preliminaires), W85-05723	1810	5C	Three-Layer Aquatic Ecosystem Model: Sediment Submodel Tests and Some Simulations, W85-01114	1802	2H
AGRICULTURAL UNIV., WAGENINGEN (NETHERLANDS). DEPT. OF TOXICOLOGY. Morphological Changes in the Gill of Carp ( <i>Cy- prinus carpio L.</i> ) Exposed to Acutely Toxic Concentrations of Methyl Bromide, W85-02916	1806	5C	AKADEMIA ROLNICZA, LUBLIN (POLAND). DEPT. OF GENERAL CHEMISTRY AND AGRICULTURAL TECHNOLOGY. Heavy Metals in the Aquatic Environment of Some Water Bodies of the Lublin Coal Basin, W85-00232	1801	5B	Testing of a Complex Ecological Model for Shallow Water Bodies, W85-05603	1810	2H
AGRICULTURAL UNIV., WAGENINGEN (NETHERLANDS). DEPT. OF WATER POLLUTION CONTROL. Anaerobic Wastewater Treatment and its Poten- tials, W85-06812	1812	5D	AKADEMIA ROLNICZA, LUBLIN (POLAND). DEPT. OF ZOOLOGY AND HYDROBIOLOGY. Occurrence of Water Mites (Hydracarina) in the River Wieprz Polluted with Domestic-Industry Sewage, W85-00224	1801	5C	Sedimentation and Sediment Analysis in Muggel Lake (Sedimentation und Sedimentanalytik im Muggelsee), W85-06653	1812	2H
Model for Lake-Bay Exchange Flow, W85-06864	1812	2L	Groups of Pelagic Zooplankton in Three Lakes of Different Trophy, W85-00228	1801	2H	AKADEMIE DER WISSENSCHAFTEN DER DDR, BERLIN. ZENTRALINSTITUT FUER MATHEMATIK UND MECHANIK. Finite-Element Analysis of Dispersion-Affected Saltwater Upconing below a Pumping Well, W85-04015	1808	2L
AHMADU BELLO UNIV., ZARIA (NIGERIA). DEPT. OF BIOLOGICAL SCIENCES. Effects of Effluents from a Sewage Treatment Plant on the Aquatic Organisms, W85-02955	1806	5C	AKADEMIA ROLNICZA, LUBLIN (POLAND). INST. OF SOIL SCIENCE AND AGRICULTURAL CHEMISTRY. Preliminary Estimate of Nutrient Run-off into Two Lakes in the Leczycko-Wlodawskie Lake District Throughout a Year, W85-02508	1805	5B	AKADEMIE DER WISSENSCHAFTEN DER DDR, JENA. ZENTRALINSTITUT FUER MIKROBIOLOGIE UND EXPERIMENTELLE THERAPIE. Model Use and Verification of Ecological Pa- rameters for an Oligotrophic Lake (Lake Stech- lin, G.D.R.), W85-05602	1810	2H
AHMADU BELLO UNIV., ZARIA (NIGERIA). DEPT. OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING. Unsteady Flow to a Ditch from a Semi-Confining and Leaky Aquifer, W85-04164	1808	2A	AKADEMIA ROLNICZA, LUBLIN (POLAND). INST. OF INLAND FISHERIES. Fish Biomass of Drained Small Reservoirs, W85-03070	1806	2H	Automatic Determination of Carbon Dioxide and Carbonate in Water According to the Flow- Stream Principle (Automatische Bestimmung von Kohlendioxid und Carbonat in Wasser Nach dem Flow-Stream-Prinzip), W85-06665	1812	5A
AICHI MEDICAL UNIV. ASSOCIATION, NAGAKUTE (JAPAN). DEPT. OF PARASITOLOGY Littoral Survey of the Chironomidae in Reser- voirs of Nagoya City and Suburbs, W85-00539	1802	5C	AKADEMIA ROLNICZA W SZCZECINIE (POLAND). INST. OF FISHERIES, OCEANOGRAPHY AND PROTECTION OF THE SEA. Nitrogen, Phosphorus and Primary Production in the Pomeranian Bay, W85-06270	1812	2L	AKADEMIE DER WISSENSCHAFTEN DER DDR, LEIPZIG. FORSCHUNGSSTELLE FUER CHEMISCHE TOXIKOLOGIE. Toxicity and Trace Analysis of Tensides in Water (Zur Toxizitat und Spurenanalyse von Tensiden in Wasser), W85-06272	1812	5A
AIR FORCE AEROSPACE MEDICAL RESEARCH LAB., WRIGHT-PATTERSON AFB, OH. Changes in Bluegill Activity as a Monitor of Acute Benzene Exposure, W85-01088	1802	5A	AKADEMIA ROLNICZA, WROCŁAW (POLAND). DEPT. OF LIMNOLOGY. Phosphorus in the Bottom Sediments of Some Lakes of the World, W85-04612	1809	2H	AKADEMIE DER WISSENSCHAFTEN DER DDR, LEIPZIG. ZENTRALINSTITUT FUER ISOTOPEN- UND STRAHLENFORSCHUNG. Lake Untersee, a First Isotope Study of the Largest Freshwater Lake in the Interior of East Antarctica, W85-07142	1812	2H
Toxic Effects of Petroleum and Shale JP-4 and JP-8 Aviation Fuels on Fathead Minnows, W85-06238	1812	5C	OR-4					
AIR FORCE GEOPHYSICS LAB., HANSCOM AFB, MA. Radar Determination of Snowfall Rate and Ac- cumulation, W85-06428	1812	2B						

## ORGANIZATIONAL INDEX

ALBERTA UNIV., EDMONTON. DEPT. OF CIVIL ENGINEERING.

<b>AKADEMIE DER WISSENSCHAFTEN DER DDR, ROSTOCK-WARNEMUENDE. INST. FUER MEERESKUNDE.</b>	<b>AKADEMIYA NAUK SSSR, NOVOSIBIRSK. INST. TEORETICHESKOI I PRIKLADNOI MEKHANIKI.</b>	<b>ALASKA UNIV., FAIRBANKS. DEPT. OF ENVIRONMENTAL QUALITY ENGINEERING.</b>
Electrochemical Speciation of Trace Metals in Sea Water, W85-02308	Development of Finite-Amplitude Disturbances in Poiseuille Flow, W85-03750	Use of Coagulants to Treat Seafood Processing Wastewaters, W85-02578
1805 7B	1807 8B	1805 5D
<b>AKADEMIYA NAUK KIRGIZSKOI SSR, FRUNZE. INST. FIZIKI I MATEMATIKI.</b>	<b>AKADEMIYA NAUK SSSR, VLADIVOSTOK. INST. BIOLOGII MORYA.</b>	<b>Alaska Seafood Processing Industry,</b> W85-05568
Investigation of the Possibilities of Uranium Isotopic Modeling of Processes of Groundwater Formation and Circulation under Conditions of the Development of Surface Streams and Short Transit Zone, W85-04095	Metal-Binding Proteins and Activity of Alkaline Phosphatase in the Oyster Crassostrea gigas in Anthropogenically Polluted Environment (Metallsvayazivayushchie Belki i Aktivnost' Shchelochnoi Fosfatazy v Gigantskoi Ustrite, Obityayushchei v Usloviyyakh Antropogennogo Zaryazneniya), W85-02719	1806 2H
1808 2F	1806 5C	1810 5D
<b>AKADEMIYA NAUK SSSR, BOROK. INST. BIOLOGII VNUTRENNYKH VOD.</b>	<b>AKADEMIYA NAVUK BSSR, MINSK. PEAT INST.</b>	<b>ALASKA UNIV., FAIRBANKS. INST. OF MARINE SCIENCE.</b>
Influence of Environmental Conditions on the Population Dynamics of Smelt, Osmerus eperlanus (Osmeridae), W85-02855	Change in the Hydrophysical Properties of Peat-Bog Soils after Application of Hydrolyzed Polyacrylonitrile, W85-06752	Influence of Temperature and Light on Rates of Inorganic Nitrogen Transport by Algae in an Arctic Lake, W85-03000
1806 2H	1812 3B	1806 2H
Soviet-American Cooperation in the Field of Protecting Water from Pollution, W85-02882		Biochemistry of Acetate in Anoxic Sediments of Skan Bay, Alaska, W85-03207
1806 6E		1806 2L
Brain Acetylcholinesterase and Backbone Collagen in Fish Intoxicated with Organophosphate Pesticides, W85-02888		<b>ALASKA UNIV. MUSEUM, FAIRBANKS.</b>
1806 5C		Waterfowl Populations and Limnologic Characteristics of Taiga Ponds, W85-04081
<b>AKADEMIYA NAUK SSSR, LENINGRAD. INST. OZEROVEDENIYA.</b>	<b>AKRON UNIV., OH. DEPT. OF CHEMISTRY.</b>	1808 2H
Comparison of Different Methods of Water Quality Evaluation by Means of Oligochaetes, W85-02775	Use of a Permeation Sampler for Determination of Volatile Priority Pollutants, W85-04960	<b>ALBERTA ENVIRONMENT, EDMONTON. WATER RESOURCES MANAGEMENT DIV.</b>
1806 5C	1809 5A	Spatial Heterogeneity in Whole Lake Sediments - Towards a Loading Estimate, W85-02073
<b>AKADEMIYA NAUK SSSR, LENINGRAD. ZOOLOGICHESKII INST.</b>	<b>AKRON UNIV., OH. DEPT. OF GEOLOGY.</b>	1804 2H
Photosynthetic Activity of Chlorophyll a in Freshwater Plankton, W85-03718	Retrospective Assessment of a Potential Cadmium Hazard, W85-06448	<b>ALBERTA ENVIRONMENTAL CENTRE, VEGREVILLE.</b>
1807 2H	1812 5C	Uptake of Zn, Cd, and Hg by Fish in the Presence of Competing Compounds, W85-00891
<b>AKADEMIYA NAUK SSSR, MOSCOW.</b>	<b>ALABAMA AGRICULTURAL EXPERIMENT STATION, AUBURN.</b>	1802 5B
Minimal Model of Eutrophication in Freshwater Ecosystems, W85-02339	Effect of Temperature-Dependent Hydraulic Properties on Soil Water Movement, W85-05185	Pesticide and PCB Levels in Fish from Alberta (Canada), W85-01954
1805 2H	1810 2G	1804 5A
<b>AKADEMIYA NAUK SSSR, MOSCOW. INST. KHMICHESKOI FIZIKI.</b>	<b>ALABAMA COOPERATIVE FISHERY RESEARCH UNIT, AUBURN.</b>	Competition of Fate Processes in the Bioconcentration of Lindane, W85-05011
Redox State and Seasonal Toxicity of Natural Water, W85-04363	Effects of Water Level Manipulation on Abundance, Mortality, and Growth of Young-of-Year Largemouth Bass in West Point Reservoir, Alabama-Georgia, W85-02375	1810 5B
1808 5B	1805 6G	<b>ALBERTA UNIV., EDMONTON. DEPT. OF BOTANY.</b>
<b>AKADEMIYA NAUK SSSR, MOSCOW. INST. OF EVOLUTIONARY MORPHOLOGY AND ANIMAL ECOLOGY.</b>	<b>ALABAMA DEPT. OF CONSERVATION AND NATURAL RESOURCES, MONTGOMERY. GAME AND FISH DIV.</b>	Vegetation and Water Chemistry of Four Oligotrophic Basin Mires in Northwestern Ontario, W85-01648
Quantitative Expression of Function for Remote Indication of Soil Moisture, W85-00158	Summer Selection of Thermal Refuges by Striped Bass in Alabama Reservoirs and Tailwaters, W85-06407	1804 2H
1801 2G	1812 2H	Seasonal Spatial and Temporal Phytoplankton Changes in a Shallow Eutrophic Lake, W85-02282
Selecting Sites of Projected Fish Passes, W85-00159	<b>ALABAMA UNIV. IN BIRMINGHAM. DEPT. OF BIOLOGY.</b>	1805 2H
1801 8I	Adaptation of an Industrial Activated Sludge Process to the Removal of Cyanide, W85-05418	Seasonal Physical, Chemical and Algal Changes in Five Rivers Flowing Through the Oil Sands Region of Alberta, Canada, W85-02562
Attempt at Ecological Prognosis of the Plankton in the Man-Made Lake Parana Medio (Chapeton Transect), Argentina, W85-02407	Biological Treatment of High-Strength Coke-Plant Wastewater, W85-05440	1805 2E
1805 2H	1810 5D	<b>ALBERTA UNIV., EDMONTON. DEPT. OF CIVIL ENGINEERING.</b>
<b>AKADEMIYA NAUK SSSR, MOSCOW. INST. VODNYKH PROBLEM.</b>	Size Distribution and Lignin Content of Fine Particulate Organic Matter (FPOM) from Microbially Processed Leaves in an Artificial Stream, W85-05669	Turbulent Non-Buoyant Surface Jets, W85-00195
Generalized Model of Aerobic Biological Treatment, W85-01115	1810 2H	1801 8B
1802 5D	<b>ALASKA AREA NATIVE HEALTH SERVICE, ANCHORAGE.</b>	Non-Buoyant and Buoyant Circular Surface Jets in Coflowing Streams, W85-00196
Multispecies Model of Biological Treatment with Sequential Pollutant Oxidation, W85-06166	Operation and Maintenance Considerations for the Design of Arctic Water Systems, W85-04923	1801 8B
1811 5D	1809 6A	Free Flow Upstream of Vertical Sluice Gates, W85-00524
<b>AKADEMIYA NAUK SSSR, MOSCOW. VYCHISLITELNYY TSENTR.</b>	<b>ALASKA UNIV., FAIRBANKS. DEPT. OF ENGINEERING.</b>	1802 8B
Investigation of Water Circulation in the Northwestern Black Sea and Its Relation to Human Impact on River Runoff, W85-04118	Cold Climate Facultative Lagoons, W85-04048	Microorganism Survival in an Ice-Covered River, W85-01708
1808 2E	1808 5D	1804 5B
		Hydraulics of Denil Fishways, W85-02451
		Analysis of Breakup and Ice Jams on the Athabasca River at Fort McMurray, Alberta, W85-04043
		1808 2C
		LDA Measurements in Open Channel, W85-04399
		1808 8B

## ORGANIZATIONAL INDEX

### **ALBERTA UNIV., EDMONTON. DEPT. OF CIVIL ENGINEERING.**

Study of Water Bleeder Control Alternatives, W85-04922	1809 3D	Effect of Water Hardness on the Toxicity of Cadmium to Micro-Organisms, W85-04295	1808 5C	<b>AMERICAN TYPE CULTURE COLLECTION, ROCKVILLE, MD.</b>
Evaluation of Water Bleeder Controls, W85-05301	1810 8C	Effects of a Textile Factory Effluent on Soil and Crop Plants, W85-04945	1809 5D	Distribution and Possible Interrelationships of Pathogenic and Nonpathogenic Acanthamoeba from Aquatic Environments, W85-02189
Experimental Study of Bluff Surface Discharges with Small Richardson Number, W85-07032	1812 5B			1805 5B
<b>ALBERTA UNIV., EDMONTON. DEPT. OF GEOGRAPHY.</b>				<b>AMERICAN UNIV., BEIRUT (LEBANON). DEPT. OF ENVIRONMENTAL HEALTH.</b>
Remote Semiautomatic Instrumentation for Intermittent Streamflow Measurement and Suspended Sediment Sampling, W85-05461	1810 2E	Biological Effect of Some Poisons on <i>Canthocampus</i> ( <i>Crustacea spp.</i> ), W85-05446	1810 5C	Change in Quality of Thermal Groundwater From a Unique Resource in Lebanon, W85-01673
<b>ALBERTA UNIV., EDMONTON. DEPT. OF GEOLOGY.</b>				1804 2F
Simulation of Changes in Ground-Water Levels Associated with Strip Mining, W85-05731	1810 4C			<b>Chlorine as an Algicide in a Conventional Water Treatment Plant,</b> W85-01749
<b>ALBERTA UNIV., EDMONTON. DEPT. OF MICROBIOLOGY.</b>				1804 5F
Microorganisms and the Degradation of Oil Under Northern Marine Conditions, W85-05585	1810 5B			<b>AMERICAN WATER WORKS CO., INC., CHARLESTON, WV.</b>
<b>ALBERTA UNIV., EDMONTON. DEPT. OF SOIL SCIENCE.</b>				Single Tariff Pricing, W85-03615
Interflow Model: I. Model Development, W85-04577	1809 2A	Biological Productivity of Lake Qarun (Arab Republic of Egypt), W85-02851	1806 2H	1807 6C
Interflow Model: II. Model Validation, W85-04579	1809 2A	Effect of Mercury on the Respiration Rate of Larval Pink Salmon, <i>Oncorhynchus gorbuscha</i> , W85-02853	1806 5C	<b>AMES LAB., IA.</b>
<b>ALBERTA UNIV., EDMONTON. DEPT. OF ZOOLOGY.</b>				Gas Chromatography/Mass Spectrometry Determination of Water-Soluble Primary Amines as Their Pentafluorobenzaldehyde Imines, W85-06255
Contribution of Particulate Phosphorus (> 250 micro m) to the Total Phosphorus Pool in Lake Water, W85-00151	1801 2H	Effect of Dredging Operations in the Volga River on Migration of Sturgeon Larvae, W85-02850	1806 6G	1812 5A
Role of Internal Phosphorus Loading in Two Shallow, Productive Lakes in Alberta, Canada, W85-01488	1803 2H			<b>Degradation of Pesticides in Controlled Water-Soil Systems,</b> W85-06780
Seasonal Changes in Total Phosphorus and the Role of Internal Loading in Western Canadian Lakes, W85-02630	1805 2H			1812 5E
Modelling Winter Oxygen Depletion Rates in Ice-Covered Temperate Zone Lakes in Canada, W85-04843	1809 2H			<b>AMHERST COLL., MA. DEPT. OF PHYSICS.</b>
<b>ALEXANDRIA UNIV. (EGYPT). DEPT. OF OCEANOGRAPHY.</b>				Concentration and Isotopic Fractionation of Oxygen Dissolved in Freshwater and Seawater in Equilibrium with the Atmosphere, W85-01334
Status of Nutrients in Lake Mariut, a Delta Lake in Egypt Suffering from Intensive Pollution, W85-03241	1807 5B			1803 2K
Metals and Chlorinated Hydrocarbons in Surficial Sediments of Three Nile Delta Lakes, Egypt, W85-05037	1810 6G			<b>AMORY ENGINEERS, DUXBURY, MA.</b>
<b>ALEXANDRIA UNIV. (EGYPT). HIGHER INST. OF PUBLIC HEALTH.</b>				Microcomputer Billing for the Small Water Utility, W85-01316
Treatability of Dairy Wastewater, W85-05256	1810 5D			1803 6C
Mercury Removal from a Chloralkali Plant in Egypt, W85-05421	1810 5D			<b>AMSTERDAM UNIV. (NETHERLANDS). LAB. OF ENVIRONMENTAL AND TOXICOLOGICAL CHEMISTRY.</b>
<b>ALIGARH MUSLIM UNIV. (INDIA). ENVIRONMENTAL RESEARCH LAB.</b>				Bioaccumulation of Organic Micropollutants from Sediments and Suspended Particulates by Aquatic Animals, W85-03283
Pollution in the Ganges River, India, W85-01411	1803 5B			1807 5B
Acute Toxicity of Chrome Electropolating Wastes to Microorganisms: Adsorption of Chromate and Chromium (VI) on a Mixture of Clay and Sand, W85-02921	1806 5C			<b>AMSTERDAM UNIV. (NETHERLANDS). LAB. VOOR MICROBIOLOGIE.</b>
				Release of Sediment-Phosphorus and the Influence of Algal Growth on This Process, W85-01761
				1804 2H
				Influence of Simulated Groundwater-Movement on the Phosphorus Release from Sediments, as Measured in a Continuous Flow System, W85-02094
				1804 2F
				<b>AMSTERDAM UNIV. (NETHERLANDS). VAKGROEP AQUATISCHE OECOLOGIE.</b>
				Great Lakes Research: Past, Present and Future, W85-00916
				1802 4A
				Overview of the US-USSR Joint Agreement on Environmental Protection Related to Prevention of Water Pollution, W85-02881
				1806 6E
				<b>AMT FUER WASSER- UND ABFALLWIRTSCHAFT, MUENSTER (GERMANY, F.R.).</b>
				Measurements of Canopy Interception at the St. Arnold Lysimeter Station/Munsterland (Die Interceptionsmessungen an der Grosslysimeterlage St. Arnold), W85-06158
				1811 2I
				<b>ANATEL INSTRUMENT CORP., BOULDER, CO.</b>
				State-of-the-Art for Electronic Grade Ultrapure Water Manufacturing and Distribution, Part I, W85-01873
				1804 5F

## ORGANIZATIONAL INDEX

**ARIZONA UNIV., TUCSON. DEPT. OF CIVIL ENGINEERING.**

State-of-the-Art for Electronic Grade Ultrapure Water Manufacturing and Distribution, Part II, W85-03843	1808 5F	<b>ANTWERPSE WATERWERKEN (BELGIUM).</b> Chlorination of Cooling Waters and Quality of Water Resources, W85-02023	1804 5D	Mined Land Reclamation Using Polluted Urban Navigable Waterway Sediments: II. Organics, W85-01288	1803 5B
<b>ANDERSON-NICHOLS AND CO., INC., BOSTON, MA.</b>		<b>APPROPRIATE TECHNOLOGY INTERNATIONAL, WASHINGTON, DC.</b> SAGE: A New Participant-Value Method for Environmental Assessment, W85-04999	1810 6A	Mined Land Reclamation Using Polluted Urban Navigable Waterway Sediments: III. Experience at a Demonstration Site, W85-01289	1803 5G
Use of Aquaculture for the Treatment of Landfill Leachate in Cold Climates, W85-05374	1810 5E	<b>AQUA TECH ENVIRONMENTAL CONSULTANTS, INC., MELMORE, OH.</b> Multivariate Statistical Analyses of 96-Hour Sediment Bioassay and Chemistry Data, W85-02777	1806 5A	Effects of Dissolved Organic Carbon on the Adsorption Properties of Plutonium in Natural Waters, W85-04799	1809 5B
<b>ANDHRA UNIV., WALTAIR (INDIA). DEPT. OF METEOROLOGY AND OCEANOGRAPHY.</b>		<b>AQUATER S.P.A., SAN LORENZO IN CAMPO (ITALY).</b> Interconnected Groundwater Systems Simulation (IGROSS) - Description of the System and a Case History Application, W85-04277	1808 2F	Energy and Materials Recovery Options for the Textile Industry, W85-05241	1810 5D
Agricultural Droughts at Peddapuram, East Godavari District, Andhra Pradesh, W85-02126	1804 2I	<b>AQUILA UNIV. (ITALY). IST. DIGIENE.</b> Application of a Simplified Method for Recovery of <i>Yersinia enterocolitica</i> from Surface Waters, W85-07135	1812 5A	Acid Rain Control and United States Energy Policy, W85-06555	1812 5G
Water Balance and Crops in Karnataka, W85-02127	1804 2I	<b>ARAB AUTHORITY FOR AGRICULTURAL INVESTMENT AND DEVELOPMENT, KHARTOUM (SUDAN). IMPLEMENTATION DIV.</b> Nile: Description, Hydrology, Control and Utilization, W85-01024	1802 2H	Engineering-Economic Simulation Model for Regional Wastewater Treatment Cost Functions, W85-06602	1812 5D
Study of Aridity and Droughts in the Climatic Spectrum of the South Indian Region, W85-05079	1810 2B	<b>ARBEITSGEMEINSCHAFT UMWELTFORSCHUNG, BERLIN (GERMANY, F.R.).</b> Drinking Water Situation in the Federal Republic of Germany at the Time of the Acceptance of the E.E.C. Drinking Water Directive (Die Trinkwassersituation in der Bundesrepublik Deutschland bei Übernahme der EG-Richtlinie Trinkwasser), W85-03591	1807 5F	<b>ARIZONA AGRICULTURAL EXPERIMENT STATION, TUCSON. DEPT. OF PLANT SCIENCES.</b> Bermudagrass Grown with Municipal Wastewater, W85-00680	1802 3C
<b>ANDHRA UNIV., WALTAIR (INDIA). DEPT. OF ZOOLOGY.</b>		<b>ARBER (RICHARD P.) ASSOCIATES, INC., DENVER, CO.</b> Ozone Enhanced Biological Activated Carbon in Denver, Colorado: A Pilot Plant Study, W85-05826	1810 5D	<b>ARIZONA COOPERATIVE FISHERY RESEARCH UNIT, TUCSON.</b> Unusual Diel pHs in Water as Related to Aquatic Vegetation, W85-01472	1803 2H
Pollution Effects on Ecobiology of Benthic Polychaetes in Visakhapatnam Harbour (Bay of Bengal), W85-00803	1802 5C	<b>ARIZONA GAME AND FISH DEPT., PHOENIX.</b> Status of the Black Bass Fishery in Lake Mead and a Program Toward Restoration and Enhancement, W85-04209	1808 8I		
<b>ANGERS UNIV., BESANCON (FRANCE). LAB. DE GEOLOGIE STRUCTURALE ET APPLIQUEE.</b>		<b>ARIZONA STATE UNIV., TEMPE. DEPT. OF BOTANY AND MICROBIOLOGY.</b> Moisture Stress Effects on Biomass Partitioning in Two Sonoran Desert Annuals, W85-00089	1801 2I		
Fresh Water-Salt Water Interface in French Flanders (L'Interface eau douce-eau salee en Flandres francaises), W85-06447	1812 2L	Influence of Water on CO <sub>2</sub> Exchange in the Lichen <i>Parmelia praesignis</i> Nyl., W85-02901	1806 2I		
<b>ANGLIAN WATER AUTHORITY, HUNTINGDON (ENGLAND).</b>		<b>ARIZONA STATE UNIV., TEMPE. DEPT. OF ZOOLOGY.</b> Temporal Succession in a Desert Stream Ecosystem Following Flash Flooding, W85-00270	1801 2H		
Calculation of the Compliance of Discharges with Emission Standards, W85-01401	1803 5A	Exchange Between Interstitial and Surface Water: Implications for Stream Metabolism and Nutrient Cycling, W85-00422	1801 2H		
Calculating Future Levels of Nitrate in Rivers and Pumped Storage Reservoirs, W85-01435	1803 5G	<b>ARIZONA UNIV., TUCSON.</b> New Crops for Arid Lands, W85-02548	1805 3F		
EQO Theory in Practice, W85-04335	1808 5G	Movement, Transport, and Scour of Particulate Organic Matter and Aquatic Invertebrates Downstream from a Peaking Hydropower Project, W85-06973	1812 6G		
Monitoring of River Water Quality within the Great Ouse Basin Using the Chironomid Exuvial Analysis Technique, W85-04454	1809 5A	<b>ARIZONA UNIV., TUCSON. COLL. OF AGRICULTURE.</b> Luxury Water Use by Bermudagrass Turf, W85-06189	1812 2D		
<b>ANGLIAN WATER AUTHORITY, LINCOLN (ENGLAND). LINCOLN DIV.</b>		<b>ARIZONA UNIV., TUCSON. DEPT. OF CIVIL ENGINEERING.</b> Oxidation of a Corn-Milling Wastewater with Hydrogen Peroxide, W85-05563	1810 5D		
Heavy Metals in <i>Fucus vesiculosus</i> in the Humber Estuary, W85-07105	1812 5C				
<b>ANGLIAN WATER AUTHORITY, NORTHAMPTON (ENGLAND). NORTHAMPTON SEWAGE DIV.</b>					
Cost-Effective Management - Revenue and Technical Monitoring, W85-04519	1809 6B				
<b>ANTWERP UNIV., WILRIJK (BELGIUM). DEPT. OF BIOLOGY.</b>					
'Het Goorken' and 'de Lokkerse Dammen' (Arendonk, Belgium): I. Introduction and Phyto-sociological Survey ( <i>Het Goorken en de Lokkerse Dammen (Arendonk, Belgie)</i> ; I. Inleiding en Fytosociologische Schets), W85-05072	1810 2L				
<b>ANTWERP UNIV., WILRIJK (BELGIUM). DEPT. OF CHEMISTRY.</b>					
Determination of Ionic Alkyllead Compounds in Water by Gas Chromatography/Atomic Absorption Spectrometry, W85-03732	1807 5A				

## ORGANIZATIONAL INDEX

### **ARIZONA UNIV., TUCSON. DEPT. OF CIVIL ENGINEERING.**

Ultrasound Catalyzed Ozone Pretreatment to Reduce Organic Fouling of Reverse Osmosis Membranes, W85-06299 1812 5D

### **ARIZONA UNIV., TUCSON. DEPT. OF CIVIL ENGINEERING AND ENGINEERING MECHANICS.**

Chlorine Utilization during Trihalomethane Formation in the Presence of Ammonia and Bromide, W85-02806 1806 5B

Chemical Coagulation of Tar Sand Processing Wastewater, W85-05399 1810 5D

### **ARIZONA UNIV., TUCSON. DEPT. OF ELECTRICAL ENGINEERING.**

Development of a Predictive Irrigation Scheduling Index Using Electrophytograms, W85-06326 1812 3F

### **ARIZONA UNIV., TUCSON. DEPT. OF GEOSCIENCES.**

Alluvial Stratigraphy and Radiocarbon Dating Along the Duck River, Tennessee: Implications Regarding Flood-Plain Origin, W85-01131 1803 2J

### **ARIZONA UNIV., TUCSON. DEPT. OF HYDROLOGY AND WATER RESOURCES.**

Repeated Pulse Technique for Determining the Hydraulic Properties of Tight Formations, W85-00308 1801 2F

New Method for Simultaneous Measurement of Cl(-), Br(-), NO3(-), SCN(-), and I(-) at Sub-ppm Levels in Ground Water, W85-00356 1801 5A

Method for Optimal Observation Network Design for Groundwater Management, W85-02463 1805 4B

Stationary Principle for Non Conservative Systems, W85-04165 1808 2F

Automatic Calibration of Conceptual Catchment Models Using Derivative-Based Optimization Algorithms, W85-06502 1812 2A

Analysis of Structural Identifiability: Theory and Application to Conceptual Rainfall-Runoff Models, W85-06503 1812 2A

### **ARIZONA UNIV., TUCSON. DEPT. OF MATHEMATICS.**

Salt and Water Transport in Unsaturated Soil for Non-Conservative Systems, W85-06686 1812 2G

### **ARIZONA UNIV., TUCSON. DEPT. OF METALLURGICAL ENGINEERING.**

How Are the Physical and Chemical Properties of Chrysotile Asbestos Altered by a 10-Year Residence in Water and up to 5 Days in Simulated Stomach Acid, W85-02713 1806 5B

### **ARIZONA UNIV., TUCSON. DEPT. OF MICROBIOLOGY AND IMMUNOLOGY.**

Effect of Noncoliform on Coliform Detection in Potable Groundwater: Improved Recovery with an Anaerobic Membrane Filter Technique, W85-02140 1804 5F

Simple Field Method for Concentration of Viruses from Large Volumes of Water, W85-02603 1805 7B

Virus Persistence in Groundwater, W85-06140 1811 5B

### **ARIZONA UNIV., TUCSON. DEPT. OF PLANT SCIENCES.**

Yield and Quality of Cotton Grown with Wastewater, W85-01869 1804 5D

### **ARIZONA UNIV., TUCSON. DEPT. OF SOILS, WATER AND ENGINEERING.**

Soil Cation Leaching by 'Acid Rain' with Varying Nitrate-to-Sulfate Ratios, W85-01283 1803 5B

Generalized Solution to Infiltration, W85-05182 1810 2G

Effect of Slope and Rainfall Intensity on Erosion from Sodium Dispersed, Compacted Earth Microcatchments, W85-05191 1810 3B

Hillside Seepage: An Analytical Solution to a Nonlinear Dupuit-Forchheimer Problem, W85-05796 1810 2F

### **ARIZONA UNIV., TUCSON. DEPT. OF SYSTEMS AND INDUSTRIAL ENGINEERING.**

Markov Flow Models and the Flood Warning Problem, W85-04795 1809 2E

Multicriterion Network Design Using Geostatistics, W85-05499 1810 2F

### **ARIZONA UNIV., TUCSON. LAB. OF TREE-RING RESEARCH.**

Secular Variations in Streamflow in the Western United States, W85-03845 1808 2E

### **ARIZONA UNIV., TUCSON. OFFICE OF ARID LANDS STUDIES.**

Systems for Rainfall and Runoff Use, Tucson, Arizona, W85-04995 1810 3B

### **ARIZONA UNIV., TUCSON. SCHOOL OF NATURAL RESOURCES.**

Estimation of Water Potential Components of Saline Soils of Great Basin Rangelands, W85-00756 1802 2G

### **ARIZONA UNIV., TUCSON. SCHOOL OF RENEWABLE NATURAL RESOURCES.**

Anaerobic Incubation of Membrane Filter Cultures for Improved Detection of Fecal Coliforms from Recreational Waters, W85-02595 1805 5A

Analysis of Sample Preparation Procedures for Enumerating Fecal Coliforms in Coarse Southwestern U.S. Bottom Sediments by the Most-Probable-Number Method, W85-02942 1806 5A

Recreational Water Quality Analyses of the Colorado River Corridor in Grand Canyon, W85-03430 1807 5B

### **ARIZONA WATER RESOURCES RESEARCH CENTER, TUCSON.**

Municipal Wastewater Increases Crop Yields, W85-05059 1810 3C

### **ARKANSAS POWER AND LIGHT CO., LITTLE ROCK.**

Chemical Cleaning Waste Disposal by Landfarming, W85-07097 1812 5E

### **ARKANSAS UNIV. AT LITTLE ROCK. DEPT. OF BIOLOGY.**

Bibliography to Upper Mississippi River Aquatic and Wetland Plant Literature, W85-06871 1812 2H

### **ARKANSAS UNIV., FAYETTEVILLE. DEPT. OF AGRICULTURAL ENGINEERING.**

Solar Earth-Water Distillation for Wet Sand, W85-06073 1811 2G

### **ARKANSAS UNIV., FAYETTEVILLE. DEPT. OF AGRONOMY.**

Microwave Measurements of Moisture Distributions in the Upper Soil Profile, W85-02160 1804 2G

Relationships among Oxygen Flux, Soil Water Tension, and Aeration Porosity in a Drying Soil Profile, W85-04956 1809 2G

### **ARKANSAS UNIV., FAYETTEVILLE. WATER RESOURCES RESEARCH CENTER.**

Disposal of Household Wastewater in Soils of High Stone Content (1981-1983), W85-01815 1804 5D

### **ARKANSAS WATER RESOURCES RESEARCH CENTER, FAYETTEVILLE.**

Arkansas Groundwater Management Via Target Levels, W85-06074 1811 4B

### **ARMY ENGINEER DISTRICT, NEW YORK.**

Sediment Budget Study for Clamshell Dredging and Disposal Activities, W85-00048 1801 5E

### **ARMY ENGINEER DISTRICT, PORTLAND, OR.**

Crater Lake Study: Detection of Possible Optical Deterioration of a Rare, Unusually Deep Caldera Lake in Oregon, U.S.A., W85-02644 1805 2H

### **ARMY ENGINEER DISTRICT, ST. LOUIS, MO.**

Ice-Related Flood Damage Estimation, W85-01573 1803 2E

Managing a Public Involvement Program, W85-01574 1803 6A

Stage-Frequency Analysis at a Major River Junction, W85-06035 1811 2E

### **ARMY ENGINEER WATERWAYS EXPERIMENTATION STATION, VICKSBURG, MS.**

Estimating O and M Cost when Costs Vary with Flow, W85-01571 1803 6B

Changes in the Naiad Fauna of the Cumberland River below Lake Cumberland in Central Kentucky, W85-01921 1804 6G

Selecting an Economical Water Main Rehab, W85-02729 1806 5F

Measuring Differential Pressure Accurately in Water Distribution Systems, W85-03322 1807 5F

Cleaning and Lining Versus Parallel Mains, W85-04242 1808 5F

Seasonal Growth and Community Composition of Phytoplankton in a Eutrophic Wisconsin Impoundment, W85-04311 1808 2H

Fixation and Mobilization of Antimony in Sediments, W85-05975 1811 5B

Calculating Effectiveness of Water Conservation Measures, W85-06021 1811 6F

**ORGANIZATIONAL INDEX**  
**ARMY MEDICAL BIOENGINEERING RESEARCH AND DEVELOPMENT LAB., FORT DETRICK,**

Verification of MAPS Cost Estimating Procedures, W85-06949	1812 6C	Field Investigations of Overland Flow Treatment of Municipal Lagoon Effluent, W85-06926	1812 5D	Filling and Emptying System, Walter Bouldin Lock, and Lock Culvert Valve for Coosa River Waterway, Alabama, W85-06896	1812 8B
Planning Level Cost Estimating: Science, Art, or Witchcraft, W85-06954	1812 6C	Study of Cutoff Bendways on the Tombigbee River, W85-06928	1812 6G	Kahoma Stream Channel Improvement Project, Maui, Hawaii: Hydraulic Model Investigation, W85-06904	1812 4A
<b>ARMY ENGINEER WATERWAYS EXPERIMENT STATION, VICKSBURG, MS. ENVIRONMENTAL EFFECTS LAB.</b>		Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 5, Fish Studies: Pilot Report, W85-06943	1812 8I	Mississippi Sound Wave-Hindcast Study: Main Text and Appendices A and B, W85-06912	1812 2E
Techniques for Reducing Contaminant Release During Dredging Operations, W85-00573	1802 5G	Proceedings of Symposium on Cost Estimating for Water Supply Planning Studies, W85-06946	1812 6C	Erosion Control of Scour During Construction; Report 3: Experimental Measurements of Refraction and Diffraction Downcoast of an Oblique Breakwater, W85-06920	1812 8B
<b>ARMY ENGINEER WATERWAYS EXPERIMENT STATION, VICKSBURG, MS. ENVIRONMENTAL LAB.</b>		Aerial Survey Techniques to Map and Monitor Aquatic Plant Populations: Four Case Studies, W85-06955	1812 7B	South Fork Tillatoba Creek Drop Structure, Mississippi: Hydraulic Model Investigation, W85-06923	1812 8B
Role of Sediments in the Nitrogen Budget of Lower Green Bay, Lake Michigan, W85-01754	1804 5B	Phosphorus Dynamics in an Arkansas Reservoir: The Importance of Seasonal Loading and Internal Recycling, W85-06964	1812 2H	Los Esteros Spillway, Pecos River, New Mexico: Hydraulic Model Investigation, W85-06927	1812 8B
Modeling Chemical Water Quality in Reservoirs, W85-02624	1805 5C	Environmental Effects of Tennessee-Tombigbee Project Cutoff Bendways, W85-06965	1812 6G	Pollution Control Facilities Project Southeastern Oakland County Sewage Disposal System, Oakland County, Michigan: Hydraulic Model Investigation, W85-06937	1812 5G
How Much Water Can You Save With Conservation Measures, W85-05483	1810 3D	Larval Fish of Selected Aquatic Habitats on the Lower Mississippi River, W85-06969	1812 6G	Lake Pontchartrain and Vicinity Hurricane Protection Plan; Report 1: Prototype Data Acquisition and Analysis, W85-06939	1812 2H
Toxic Metal Removal from Electroplating Wastewater Using Silylated Silica Gel, W85-05579	1810 5D	Field Survey of Heavy Metal Uptake by Naturally Occurring Saltwater and Freshwater Marsh Plants, W85-06976	1812 5B	Pointe Coupee Pumping Station Siphon Upper Pointe Coupee Loop Area, Louisiana: Hydraulic Model Investigation, W85-06961	1812 8A
Influence of Disposal Environment on Availability and Plant Uptake of Heavy Metals in Dredged Material, W85-05601	1810 5B	Effects of Permanently Raised Water Tables on Forest Overstory Vegetation in the Vicinity of the Tennessee-Tombigbee Waterway, W85-06993	1812 6G	Summary Report: Model-Prototype Comparison Study of Dike Systems, Mississippi River; Potamology Investigations, W85-06962	1812 8A
Handbook of Environmental Quality Measurement and Assessment: Methods and Techniques, W85-06897	1812 6G	Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 4: Diel Periodicity of Benthic Macroinvertebrate Drift, W85-06995	1812 2A	Baltimore Harbor and Channels Deepening Study: Chesapeake Bay Hydraulic Model Investigation, W85-06968	1812 6G
Inventory and Assessment of Aquatic Plant Management Methodologies, W85-06898	1812 4A	Compatibility and Infectivity of a Cercospora Rodmani Formulation with Enhancing Agents, W85-06997	1812 4A	Water Quality Optimization through Selective Withdrawal, W85-06974	1812 5G
Aquatic Habitat Studies on the Lower Mississippi River: River Mile 480-530; Report 7: Management of Ecological Data in Large River Ecosystems, W85-06899	1812 6G	Simulated Mechanical Control of Aquatic Plants in Buffalo Lake, Wisconsin, W85-06998	1812 4A	Big Creek Flood-Control Project Cleveland, Ohio: Hydraulic Model Investigation, W85-06994	1812 8B
Field Evaluation of Two Endothall Formulations for Managing Hydrilla in Gatun Lake, Panama, W85-06900	1812 4A	<b>ARMY ENGINEER WATERWAYS EXPERIMENT STATION, VICKSBURG, MS. GEOTECHNICAL LAB.</b>		<b>ARMY ENGINEER WATERWAYS EXPERIMENT STATION, VICKSBURG, MS. STRUCTURES LAB.</b>	
Proceedings, 17th Annual Meeting, Aquatic Plant Control Research Program, November 16-18, 1982, Sacramento, CA. W85-06901	1812 4A	Analysis of Field Compaction Data, DeGray Dam, Caddo River, Arkansas, W85-06913	1812 8D	Durability of Reinforced Concrete Beams Exposed to Marine Environment, W85-06986	1812 8F
Evaluation of Techniques to Estimate Annual Water Quality Loadings to Reservoirs, W85-06908	1812 5B	Geological and Seismological Investigations at Ririe Dam, Idaho, W85-06966	1812 8E	<b>ARMY MEDICAL BIOENGINEERING RESEARCH AND DEVELOPMENT LAB., FORT DETRICK, MD.</b>	
Animal Substrate Relationships and Productivity of Invertebrate Macrofaunas of Mississippi Sound and Adjacent Coastal Areas: A Bibliography with Abstracts, W85-06911	1812 2L	Evaluation of Membrane-Type Materials for Streambank Erosion Protection, W85-06979	1812 4D	Microbial Degradation of 2,4,6-Trichloroaniline in Aquatic Samples and Laboratory Enrichment Cultures, W85-02120	1804 5B
Chemical Clarification Methods for Confined Dredged Material Disposal, W85-06914	1812 5D	Engineering Geology and Geomorphology of Streambank Erosion; Report 2: Yazoo River Basin Uplands, Mississippi, W85-06996	1812 2J	Chromatographic Trace Analysis of Guanidine, Substituted Guanidines and S-Triazines in Water, W85-02303	1805 5A
Determination of Chemical Threshold Concentrations Using 2,4-D to Control Selected Aquatic Macrophytes: A Pilot Study to Evaluate a Laboratory System, W85-06917	1812 4A	<b>ARMY ENGINEER WATERWAYS EXPERIMENT STATION, VICKSBURG, MS. HYDRAULICS LAB.</b>		Treatment of Pesticide-Laden Wastewater by Recirculation Through Activated Carbon, W85-06781	1812 5D
Simulation for Harvesting of Aquatic Plants, W85-06922	1812 4A	Model-Prototype Comparison Study of Dike Systems, Mississippi River: Potamology Investigations, W85-06892	1812 8B		

## ORGANIZATIONAL INDEX

### **ASIAN INST. OF TECH., BANGKOK (THAILAND).**

**ASIAN INST. OF TECH., BANGKOK (THAILAND).**  
Applications of the Log Pearson Type-3 Distribution in Hydrology,  
W85-02494 1805 2A

Optimization of Sand Recycle Rate in Mobile Bed Filtration,  
W85-04663 1809 5F

Dispersion Model for Waste Stabilization Ponds,  
W85-04966 1809 5D

Pilot-Scale Investigation of Particle Retention During Artificial Recharge,  
W85-06886 1812 4B

**ASIAN INST. OF TECH., BANGKOK (THAILAND). DIV. OF ENVIRONMENTAL ENGINEERING.**  
Flocculation Time Optimization in Direct Water Filtration,  
W85-03724 1807 5D

Water Quality Index for Chao Phraya River,  
W85-03807 1808 5A

Influence of Suspended Particle Size Distribution in Deep-Bed Filtration,  
W85-04876 1809 5F

Wastewater Treatment in a Deep Aeration Tank,  
W85-04981 1810 5D

**ASIAN INST. OF TECH., BANGKOK (THAILAND). DIV. OF WATER RESOURCES ENGINEERING.**  
Regime of Oscillatory Flow,  
W85-04247 1808 2E

**ASPINWALL AND CO., SHREWSBURY (ENGLAND).**  
On-site Treatment of Leachate Using Aerobic Biological Techniques,  
W85-03769 1808 5D

**ASSOCIATED ENGINEERING SERVICES LTD., EDMONTON (ALBERTA).**  
Water Use Reduction Through Metering Could Provide Significant Economic Benefits to Inuvik, N.W.T.,  
W85-04919 1809 3D

**ASSOCIATION OF STATE AND INTERSTATE WATER POLLUTION CONTROL ADMINISTRATORS, WASHINGTON, DC.**  
State Initiatives in Nonpoint-Source Pollution Control,  
W85-05946 1811 5G

**ASTON UNIV., BIRMINGHAM (ENGLAND).**  
Acute Toxicity of Ammonia and Copper to the Gastropod *Potamopyrgus jenkinsi* (Smith),  
W85-03042 1806 5A

**ASTON UNIV., BIRMINGHAM (ENGLAND). DEPT. OF BIOLOGICAL SCIENCES.**  
Studies on the Effects of Sewage Effluent on Gastropod Populations in Experimental Streams,  
W85-03540 1807 5C

**ASTON UNIV., BIRMINGHAM (ENGLAND). DEPT. OF CHEMISTRY.**  
Effects of a Settled Industrial Domestic Sewage Works Effluent from Percolating Filters on the Embryo Viability and Hatching Success of Rainbow Trout, *Salmo gairdneri* Richardson,  
W85-03002 1806 5C

**ATHENS UNIV. (GREECE). INORGANIC CHEMISTRY LAB.**  
Trace Metals in a Tidal Mediterranean Embayment,  
W85-00802 1802 5B

**ATHENS UNIV. (GREECE). ZOOLOGICAL LAB. AND MUSEUM.**

Toxicity of Chromium to the Marine Planktonic Copepod *Acartia clausi*, Giesbrecht,  
W85-01469 1803 5C

Effects of Four Heavy Metals on Survival and Hatching Rate of *Artemia salina* (L.),  
W85-04674 1809 5C

**ATKINS RESEARCH AND DEVELOPMENT, EPSON (ENGLAND).**  
Effects of Constructing a Barrage Across the Tawe Estuary,  
W85-00567 1802 6G

**ATMOSPHERIC DYNAMICS CORP., VICTORIA (BRITISH COLUMBIA).**  
Model for Predicting Ice Accretion and Ablation in Water Bodies,  
W85-02797 1806 2C

**ATMOSPHERIC ENVIRONMENT SERVICE, DOWNSVIEW (ONTARIO).**  
Great Lakes Levels and Flows: Past and Future,  
W85-00919 1802 2H

Concentration and Deposition of Acidity, Major Ions and Trace Metals in the Snowpack of the Eastern Canadian Shield During the Winter of 1980-1981,  
W85-02730 1806 5B

Influence of Storm Characteristics on Sulfate in Precipitation,  
W85-04010 1808 2K

Spatial Distributions of Precipitation Acidity and Major Ion Wet Deposition in North America During 1980,  
W85-04647 1809 5B

**ATMOSPHERICS, INC., FRESNO, CA.**  
Computer-Assisted Data Processing and Analysis System for Ground-Based Meteorological Data Collection,  
W85-06924 1812 7C

Precipitation Gage Network Operations for Wintertime Research in the Central Sierra Nevada,  
W85-06925 1812 2B

**ATOMIC ENERGY OF CANADA LTD., CHALK RIVER (ONTARIO).**  
Portable Monitor for Measurement of Dissolved Sulfide Based on the Glass/Sulfide-Selective Electrode Couple,  
W85-04975 1810 7B

**ATOMIC ENERGY OF CANADA LTD., PINAWA (MANITOBA). WHITESHELL NUCLEAR RESEARCH ESTABLISHMENT.**  
Uptake by Plants and Migration of Uranium and Chromium in Field Lysimeters,  
W85-01281 1803 5B

Monitoring Hydrogeological Conditions in Fractured Rock at the Site of Canada's Underground Research Laboratory,  
W85-03180 1806 8E

Waste Disposal Modelling,  
W85-05463 1810 5E

**ATOMICS INTERNATIONAL DIV., RICHLAND, WA. ENERGY SYSTEMS GROUP.**

Radionuclide Sorption and Desorption Reactions with Interbed Materials from the Columbia River Basalt Formation,  
W85-06773 1812 5B

**AUBURN UNIV., AL. DEPT. OF AGONOMY AND SOILS.**

Leaching of Atrazine in the Root Zone of an Alluvial Soil in Nebraska,  
W85-03851 1808 5B

**AUBURN UNIV., AL. DEPT. OF AGRICULTURAL ENGINEERING.**

Constant and Variable Operating-Angle Sprinklers for Traveler Irrigators,  
W85-03404 1807 3F

**AUBURN UNIV., AL. DEPT. OF CHEMICAL ENGINEERING.**

Stability in Water of a New Chloramine Disinfectant as a Function of pH, Temperature, and Water Quality,  
W85-01374 1803 5F

**AUBURN UNIV., AL. DEPT. OF CHEMISTRY.**  
Tendency of a New Water Disinfectant to Produce Toxic Trihalomethanes,  
W85-01376 1803 5F

Bactericidal Properties of a New Water Disinfectant,  
W85-05511 1810 5F

**AUBURN UNIV., AL. DEPT. OF CIVIL ENGINEERING.**

Permeability of Grout Seals Surrounding Thermoplastic Well Casing,  
W85-00321 1801 8F

Analysis of Dispersion in a Stratified Aquifer,  
W85-03160 1806 2F

Nickel Removal from a Synthetic Nickel-Plating Wastewater Using Sulfide and Carbonate for Precipitation and Coprecipitation,  
W85-03300 1807 5D

Finite Element Dual Mesh Method to Calculate Nodal Darcy Velocities in Nonhomogeneous and Anisotropic Aquifers,  
W85-03571 1807 2F

Effective Manganese Removal Using Lime as an Additive,  
W85-03619 1807 5D

Calculator Smooths Color Measurement Path,  
W85-03799 1808 7C

**AUBURN UNIV., AL. DEPT. OF FISHERIES AND ALLIED AQUACULTURES.**

Comparisons of Devices for Aerating Inflow of Pipes,  
W85-00946 1802 5F

Effect of Treatment with a Commercial Bacterial Suspension on Water Quality in Channel Catfish Ponds,  
W85-01922 1804 5F

**AUBURN UNIV., AL. GEORGE W. ANDREWS FORESTRY SCIENCE LAB.**

Determination of Picloram in Soil and Water by Reversed-Phase Liquid Chromatography,  
W85-02204 1805 5A

**AUCKLAND UNIV. (NEW ZEALAND).**

Erosion of Cohesive Soils,  
W85-02953 1806 2J

Scour at Cylindrical Bridge Piers in Armored Beds,  
W85-06042 1811 2J

**AUCKLAND UNIV. (NEW ZEALAND). DEPT. OF BOTANY.**

Effects of Fluctuations in Water Level and Growth of *Lagarosiphon major* on the Aquatic Vascular Plants in Lake Rotoma, 1973-80,  
W85-01631 1803 2H

**AUCKLAND UNIV. (NEW ZEALAND). DEPT. OF CHEMISTRY.**

Detailed Model for the Mobility of Arsenic in Lacustrine Sediments Based on Measurements in Lake Ohakuri,  
W85-05117 1810 5B

## ORGANIZATIONAL INDEX

### BASRAH UNIV. (IRAQ). MARINE SCIENCE CENTRE.

<b>AUCKLAND UNIV. (NEW ZEALAND). DEPT. OF CIVIL ENGINEERING.</b> Live-Bed Scour at Bridge Piers, W85-02452	1805 8B	<b>AUSTRALIAN NATIONAL UNIV., CANBERRA. RESEARCH SCHOOL OF PACIFIC STUDIES.</b> Chemical and Biological Features of Tasmanian Salt Lakes, W85-00791	1802 2H	Preliminary Grouping of the Small Epicontinental Water Bodies in Spain and Distribution of Crustacea and Charophyta, W85-05653	1810 2H
<b>AUCKLAND UNIV. (NEW ZEALAND). DEPT. OF GEOGRAPHY.</b> Role of the Subcutaneous Zone in Karst Hydrology, W85-00004	1801 2F	<b>BADEN-WUERTTEMBERG LANDESANSTALT FUER UMWELTSCHUTZ (GERMANY, F.R.). INST. FUER WASSER- UND ABFALLWIRTSCHAFT.</b> Current Measurements in Lake Constance (Stromungen im Bodensee), W85-03438	1807 2H	Limnology of the Lago Grande de Estanya (Huesca) (Limnologia del Lago Grande de Estanya (Huesca)), W85-05746	1810 2H
<b>AUCKLAND UNIV. (NEW ZEALAND). SCHOOL OF ENGINEERING.</b> Transient Two-Dimensional Groundwater Flow, W85-00690	1802 2F	<b>BAIRD (W.F.) AND ASSOCIATES, OTTAWA (ONTARIO).</b> Design of Armour Systems for the Protection of Rumble Mound Breakwaters, W85-01707	1804 2J	Light Attenuation in Spanish Reservoirs. Relationship with Chlorophyll and Suspended Particulate Material (Extincion de la luz en los Embalses Espanoles. Relaciones con la Concentracion de Clorofila y las Particulas en Suspension), W85-05747	1810 2H
<b>AUSTRALIAN ATOMIC ENERGY COMMISSION RESEARCH ESTABLISHMENT, SUTHERLAND.</b> Evaluation of Tracer Dilution Techniques for Gauging of Rivers in Flood, W85-03085	1806 2E	<b>BALATONI LIMNOLOGIAI KUTATO INTEZETE, TIHANY (HUNGARY).</b> Dynamics of Mercury and Cadmium Uptake into Different Organs of Anodonta cygnea L., W85-02910	1806 5C	Annual Cycle and Spatial Heterogeneity of the Zooplankton in a Series of Reservoirs on the Guadiana River (Ciclo Anual y Heterogeneidad Espacial en el Zooplancton de una Cadena de Embalses del Rio Guadiana), W85-05748	1810 2H
Toxicity of Copper to the Marine Amphipod Allorchestes compressa in the Presence of Water- and Lipid-Soluble Ligands, W85-03841	1808 5C	Eutrophication of Lake Balaton: Measurements, Modeling and Management, W85-04562	1809 5C	Physico-chemical Characteristics and Phytoplankton of the Encanizada, Tancada and Buda Coastal Lagoons (Ebro River Delta) (Caracteristicas Fisicas y Quimicas y Fitoplankton de las Lagunas Costeras, Encanizada, Tancada y Buda (Delta del Ebro)), W85-05749	1810 2L
<b>AUSTRALIAN ATOMIC ENERGY COMMISSION, SUTHERLAND. LUCAS HEIGHTS RESEARCH LABS.</b> Accumulation of Cadmium from Contaminated Water and Sediment by the Shrimp Callianassa australiensis, W85-02538	1805 5C	Orthophosphate Uptake of Planktonic Microorganisms in Lake Balaton, W85-06389	1812 2H	Limnology of Gallocanta Lake, Aragon, Northeastern Spain, W85-05757	1810 2H
<b>AUSTRALIAN NATIONAL UNIV., CANBERRA. CENTRE FOR RESOURCE AND ENVIRONMENTAL STUDIES.</b> Drainage Density Variability and Drainage Basin Outputs, W85-00183	1801 2A	<b>BALTIMORE CITY HOSPITALS, MD.</b> Boiling of Drinking-Water: Can a Fuel-Scarce Community Afford It, W85-06217	1812 5F	<b>BARCELONA UNIV. (SPAIN). FACULTAT DE BIOLOGIA.</b> Relationship of DDE/sigma DDT in Marine Mammals to the Chronology of DDT Input into the Ecosystem, W85-01487	1803 5B
Time-Series Models for the Prediction of Stream Flow in a Karst Drainage System, W85-06434	1812 2E	<b>BANARAS HINDU UNIV., VARANASI (INDIA).</b> Removal of Cr(VI) from Aqueous Solutions by Adsorption on Fly Ash-Wollastonite, W85-03407	1807 5D	In Vitro Study of the Effects of Zinc on Osmoregulatory Processes, W85-02840	1806 5C
<b>AUSTRALIAN NATIONAL UNIV., CANBERRA. DEPT. OF BIOGEOGRAPHY AND GEOMORPHOLOGY.</b> Dimictic Thermal Regime and Morphology of Blue Lake in the Snowy Mountains of New South Wales, W85-00790	1802 2H	<b>BANARAS HINDU UNIV., VARANASI (INDIA). CENTRE FOR ADVANCED STUDY IN BOTANY.</b> Soil, Water and Nutrient Conservation by Certain Riparian Herbs, W85-01156	1803 2J	<b>BARI UNIV. (ITALY). DEPT. OF CHEMISTRY.</b> Electrochemical Preconcentration Combined with Atomic Absorption Spectrometry for the Determination of Heavy Metals in Water Samples, W85-02307	1805 5A
Australian Salt Lakes: Their History, Chemistry, and Biota - A Review, W85-05759	1810 2H	Water Pollution - Phycological Perspectives, W85-06266	1812 5C	<b>BASEL UNIV. (SWITZERLAND). BOTANISCHES INST.</b> Effects of Cadmium on Aquatic Hyphomycetes, W85-02592	1805 5C
<b>AUSTRALIAN NATIONAL UNIV., CANBERRA. ENVIRONMENTAL GEOCHEMISTRY GROUP.</b> 137Cs Diffusion in the Highly Organic Sediment of Hidden Lake, Fraser Island, Queensland, W85-03497	1807 2H	<b>BANARAS HINDU UNIV., VARANASI (INDIA). DEPT. OF BOTANY.</b> Apportionment of Rainfall in Central Himalayan Forests (India), W85-06051	1811 2B	<b>BASF A.G., LUDWIGSHAFEN AM RHEIN (GERMANY, F.R.).</b> Significance of the 129 Substance EEC-List for Water Quality Protection (Die Bedeutung der 129 Stoffe der EG-Liste fur den Gewasserschutz), W85-02754	1806 5G
Model of the Vertical Mixing in Lake Erie in Summer, W85-01328	1803 2H	<b>BANGALORE UNIV. (INDIA). DEPT. OF BOTANY.</b> Phytoplankton Constituents as Indicator of Water Quality: A Study of the River Cauvery, W85-05030	1810 5A	Treatment of Sludge from a Plant for Joint Treatment of Industrial Wastewater and Communal Sewage, W85-04007	1808 5E
Wind Effects on Water and Salt Loss in Playa Lakes, W85-03087	1806 2H	<b>BANGLADESH WATER DEVELOPMENT BOARD, DACC.</b> Management of Sedimentation in Bangladesh, W85-04440	1809 2J	Water Quality Management in the Chemical Industry - BASF'S Ludwigshafen Complex as an Example - Investigations, Design, Operation, W85-04008	1808 5D
Helium Accumulation in Groundwater, I: An Evaluation of Sources and the Continental Flux of Crustal $4\text{He}$ in the Great Artesian Basin, Australia, W85-07035	1812 2F	<b>BARCELONA UNIV. (SPAIN). DEPT. DE ECOLOGIA.</b> Phosphorus Compounds in the Sediment of the Sau Reservoir (Barcelona, NE Spain) Throughout its Twenty-year Existence, W85-05638	1810 2H	<b>BASRAH UNIV. (IRAQ). MARINE SCIENCE CENTRE.</b> Seasonal Variations of Oil Residues in Water of Shatt al-Arab River, Iraq, W85-05696	1810 5B

## ORGANIZATIONAL INDEX

### BASRAH UNIV. (IRAQ). MARINE SCIENCE CENTRE.

Diatoms of the Shatt Al-Arab River, Iraq, W85-05724	1810 2H	Uranium Mobility in the Natural Environment; Evidence from Sedimentary Roll-Front Deposits, W85-06777	1812 5B	<b>BAYERO UNIV., KANO (NIGERIA). DEPT. OF GEOGRAPHY.</b>
Trace Metals in Shatt Al-Arab River, Iraq, W85-06733	1812 5B	Methodology for Overland and Instream Migration and Risk Assessment of Pesticides, W85-06989	1812 5B	Climatic Constraints to Water Resource Development in the Sudano-Sahelian Zone of Nigeria, W85-06546
<b>BAT ENVITECH A.B., STOCKHOLM (SWEDEN).</b>		<b>BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WA. ENVIRONMENTAL CHEMISTRY SECTION.</b>		1812 6D
New System for Ground Water Monitoring, W85-03185	1806 7B	Subsurface Transport with Emphasis on Hydrology: Research Needs, W85-04217	1808 5B	<b>BAYLOR COLL. OF MEDICINE, HOUSTON, TX. DEPT. OF VIROLOGY AND EPIDEMIOLOGY.</b>
<b>BATTELLE COLUMBUS DIV., OH.</b>		<b>BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WA. ENVIRONMENTAL SCIENCES DEPT.</b>		Isolation of Enteroviruses from Water, Suspended Solids, and Sediments from Galveston Bay: Survival of Poliovirus and Rotavirus Adsorbed to Sediments, W85-02599
Peroxyacetyl Nitrate Solubility and Decomposition Rate in Acidic Water, W85-03594	1807 5B	Primary Production in Rattlesnake Springs, a Cold Desert Spring-Stream, W85-02547	1805 2E	1805 5A
<b>BATTELLE COLUMBUS LABS., OH. ENVIRONMENTAL AND HEALTH SCIENCES SECTION.</b>		Assessment of Intergravel Conditions Influencing Egg and Alevin Survival During Salmonid Redd Dewatering, W85-05711	1810 6G	Instrument for the Immediate Quantification of Bacteria in Potable Waters, W85-07130
Effects of Acridine and Temperature on the Survival, Development, Growth, and Reproduction of Diaptomus clavigipes Schacht, W85-03222	1807 5C	Mineral Content of Canada Goose Eggs and Implications for Environmental Surveillance Along the Columbia River, W85-06873	1812 5A	<b>BAYLOR UNIV., WACO, TX. DEPT. OF BIOLOGY.</b>
<b>BATTELLE-INST. E.V., FRANKFURT AM MAIN (GERMANY, F.R.).</b>		<b>BATTELLE PACIFIC NORTHWEST LABS., SEQUIM, WA. MARINE RESEARCH LAB.</b>		Patterns of Phytoplankton Populations and Their Relationship to Trophic State in an Elongate Reservoir, W85-05631
Environmental Model Segment Approach for Estimating Potential Environmental Concentrations, I. The Model, W85-02699	1806 5B	Behavior of Trace Metals in Mytilus edulis During a Reciprocal Transplant Field Experiment, W85-02540	1805 5C	1810 2H
Environmental Model Segment Approach for Estimating Potential Environmental Concentrations. II. Application of the Model to p-Dichlorobenzene and Trichloroethene, W85-02700	1806 5B	Fate of Corrosion Products Released from Stainless Steel in Marine Sediments and Seawater; Part 2: Sequim Bay Clayey Silt, W85-06981	1812 5B	Acid Tolerance in Amphibians, W85-06566
<b>BATTELLE NEW ENGLAND MARINE RESEARCH LAB., DUXBURY, MA.</b>		<b>BATTELLE PROJECT MANAGEMENT DIV., COLUMBUS, OH. OFFICE OF NUCLEAR WASTE ISOLATION.</b>		1812 5C
Field Assessment of Biochemical Stress Indices for the Sandworm Neanthes virens (Sars), W85-05889	1811 5C	Testing and Sampling of Deep Brine Aquifers in the Palo Duro Basin, West Texas, W85-03187	1806 2F	<b>BAYREUTH UNIV. (GERMANY, F.R.). LEHRSTUHL FUER HYDROLOGIE.</b>
<b>BATTELLE-NORTHWEST, RICHLAND, WA. MOBILITY AND PERSISTENCE OF HEXAZINONE IN A FOREST WATERSHED,</b>	1812 5B	Past and Pending Decisions Controlling San Francisco Bay and Delta, W85-00577	1802 6E	Behaviour of Polycyclic Aromatic Hydrocarbons in the Exe Estuary, Devon, W85-01841
<b>BATTELLE-NORTHWEST, RICHLAND, WA. GEOSCIENCES RESEARCH AND ENGINEERING DEPT.</b>		<b>BAYER A.G., LEVERKUSEN (GERMANY, F.R.).</b>		1804 5B
Idealized Ground-Water Flow and Chemical Transport Model (S-PATHS), W85-01532	1803 5B	Two-Step Nitrification of Ammonia-Rich Waste Water, W85-03647	1807 5D	Environmental Fate and Monitoring of Organic Micropollutants, W85-03284
<b>BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WA.</b>		<b>BAYER A.G., LEVERKUSEN (GERMANY, F.R.). ORGANISCH-ANALYTISCHE LAB.</b>		1807 5A
Preliminary Calculations of Average Storm Duration and Seasonal Precipitation Rates for the Northeast Sector of the United States, W85-00242	1801 2B	Determination of Chromium(VI) in Waste Water and Industrial Effluents by Differential Pulse Polarography, W85-05526	1810 5A	Organic Micropollutants' Balances in Watersheds of Northeastern Bavaria, W85-03285
Weighing Lysimeters for Long-Term Water Balance Investigations at Remote Sites, W85-02879	1806 2G	<b>BAYERISCHE WASSERKRAFTWERKE A.G., MUNICH (GERMANY, F.R.).</b>		1807 5B
Numerical Procedure for Obtaining the Mean Solution and Variance of the Two-Dimensional Stochastic Convection Equation, W85-04159	1808 2A	Environmental Aspects for Water Power Plants along the River Lech (Umweltgestaltung bei Wasserkraftanlagen am Lech), W85-03252	1807 6G	Behaviour of Some Organic Micropollutants in River Sediments and Groundwater, W85-03288
Aquatic Pathways Model to Predict the Fate of Phenolic Compounds, W85-04222	1808 2B	<b>BEAK CONSULTANTS LTD., MISSISSAUGA (ONTARIO).</b>		1807 5B
Sensitivity Analysis Applied to Unsaturated Flow Modeling of a Retorted Oil Shale Pile, W85-05181	1810 2F	Model for Instream Regulation of Radioisotopes and Heavy Metals in Riverine Waters Subjected to a Uranium Mill Discharge, W85-02068	1804 5B	
Microbial Transformation of Alkylpyridines in Groundwater, W85-06374	1812 5C	<b>BEAVERCREEK WASTEWATER TREATMENT FACILITY, OH.</b>		
Role of Organics in the Subsurface Migration of Radionuclides in Groundwater, W85-06775	1812 5B	Doing a Job on Data, W85-04651	1809 7C	
		<b>BECK (R.W.) AND ASSOCIATES, SEATTLE, WA.</b>		
		Swan Lake: A Small Hydro Scheme for Ketchikan, W85-03324	1807 8A	
		<b>BEDFORD INST. OF OCEANOGRAPHY, DARTMOUTH (NOVA SCOTIA).</b>		
		Oil Spills: What Have We Learned, W85-05223	1810 5C	

## ORGANIZATIONAL INDEX

**BHABHA ATOMIC RESEARCH CENTRE, BOMBAY (INDIA). HEALTH PHYSICS DIV.**

Birds, Oil and the Canadian Environment, W85-05590	1810 5C	BERMUDA PUBLIC WORKS DEPT., HAMILTON,
Ecology of Coastal Waters: A Systems Approach, W85-06945	1812 2L	Freshwater 'Central Lens' of Bermuda, W85-02464
<b>BEDFORD INST. OF OCEANOGRAPHY, DARTMOUTH (NOVA SCOTIA). ATLANTIC GEOSCIENCE CENTRE.</b>		1805 2F
Significance of Natural and Anthropogenic Sediment Inputs to the Saguenay Fjord, Quebec, W85-01053	1802 2J	<b>BERN UNIV. (SWITZERLAND).</b>
Prodelta Environment of a Fjord: Suspended Particle Dynamics, W85-0698	1812 2H	<b>PHYSIKALISCHES INST.</b>
<b>BEDFORD INST. OF OCEANOGRAPHY, DARTMOUTH (NOVA SCOTIA). ATLANTIC OCEANOGRAPHIC LAB.</b>		Sulphate and Nitrate Concentrations in Snow From South Greenland 1895-1978, W85-06801
Dissolved Chromium in the St. Lawrence Estuary, W85-03633	1807 2L	1812 5B
<b>BEDFORD INST. OF OCEANOGRAPHY, DARTMOUTH (NOVA SCOTIA). MARINE ECOLOGY LAB.</b>		<b>BERNISCHE KRAFTWERKE A.G. (SWITZERLAND).</b>
Modified Logistic Growth Equation: Effects of Cadmium Chloride on the Diatom, Thalassiosira weissflogii and the Dinoflagellate, Amphidinium carteri in Unialgal and Bialgal Batch Cultures, W85-03687	1807 5C	Rebuilding of the Hydro-Electric Power Station of Spiez (Kraftwerk Spiez Erneuerung 1982-1985), W85-01857
Observations on the Ecological Importance of Salt Marshes in the Cumberland Basin, a Macrotidal Estuary in the Bay of Fundy, W85-06855	1812 2L	1804 8A
<b>BELGRADE UNIV. (YUGOSLAVIA).</b>		<b>BEZIRKS-HYGIEINEINSPEKTION UND - INST., ERFURT (GERMAN D.R.).</b>
<b>FACULTY OF CIVIL ENGINEERING.</b>		Comparative Studies for Indication of Chlorine in Drinking and Bathing Water on the Basis of o-Tolidin and Diethyl-p-phenylenediamine (DPD) (Vergleichende Untersuchungen Zum Nachweis von Chlor im Trink- und Badewasser auf der Basis von o-Tolidin und Diethyl-p-Phenyldiamin (DPD)), W85-06276
Some Statistical Properties of Short-Duration Rainfall, W85-01681	1804 2B	1812 5F
<b>BELL-WALKER ENGINEERS, INC., BELLEVUE, WA.</b>		<b>BEZIRKS-HYGIEINEINSPEKTION UND - INST., SCHWERIN (GERMAN D.R.).</b>
Preparing the Data Base for a Water Network Analysis, W85-00740	1802 5F	Occurrence of DDT and Polychlorinated Biphenyls (PCB) in Fish from Lakes in Schwerin County (Zum Vorkommen von DDT und Polychlorierten Biphenylen (PBC) in Fischen aus Seen des Bezirk Schwerin), W85-06275
<b>BEMIDJI STATE UNIV., MN. CENTER FOR ENVIRONMENTAL STUDIES.</b>		1812 5C
Effects of Simulated Acid Precipitation on Decomposition and Leaching of Organic Carbon in Forest Soils, W85-03095	1806 5C	<b>BEZIRKS-HYGIEINEINSPEKTION UND - INSTITUT, MAGDEBURG (GERMAN D.R.).</b>
<b>BEN-GURION UNIV. OF THE NEGEV, BEERSHEBA (ISRAEL). APPLIED RESEARCH INST.</b>		Determination of Traces of Mercury in Waters in the ppt-Range (Zur Bestimmung von Quecksilberspuren in Wassern im ppt-Bereich), W85-03280
Irrigation with Brackish Water Under Desert Conditions; I. Problems and Solutions in Production of Onions ( <i>Allium cepa L.</i> ), W85-06282	1812 3C	1807 5A
<b>BEN-GURION UNIV. OF THE NEGEV, BEERSHEBA (ISRAEL). DEPT. OF ECONOMICS.</b>		<b>BEZIRKS-HYGIEINEINSTITUT, GREIFSWALD (GERMAN D.R.).</b>
Solar Energy and Hydroelectric Power Generation in the Dead Sea: A Dynamic Analysis, W85-03548	1807 6B	Increasing the Rate of Degradation in Wastewater Pond Facilities with Anaerobic Preliminary Treatment Basins (Zur Steigerung der Abbaute in Abwasserteichenanlagen mit anaeroben Vorbecken), W85-03522
<b>BEN-GURION UNIV. OF THE NEGEV, BEERSHEBA (ISRAEL). DEPT. OF ELECTRICAL AND COMPUTER ENGINEERING.</b>		1807 5D
Simple Algorithm for On-Line Prediction of BODs by a Microprocessor-Based System, W85-02951	1806 5A	<b>BEZIRKSINSTITUT FUER VETERINARWESEN KARL-MARX-STADT (GERMAN D.R.). ABT. FISCHKRANKHEITEN.</b>
<b>BEN-GURION UNIV. OF THE NEGEV, SDE BOKER (ISRAEL). JACOB BLAUSTEIN INST. FOR DESERT RESEARCH.</b>		Classification of Water Components According to Their Potential Toxicity to Water Organisms (Die Klassifizierung von Wasserinhaltstoffen Nach ihrem Toxizitätspotential Gegenüber Wasserorganismen), W85-06657
Effects of Water Pollution on Plant Species Composition along the Amal River, Israel, W85-02239	1805 5C	1812 5C
<b>BHABHA ATOMIC RESEARCH CENTRE, BOMBAY (INDIA). AIR MONITORING SECTION.</b>		<b>BHABHA ATOMIC RESEARCH CENTRE, BOMBAY (INDIA). AIR MONITORING SECTION.</b>
Some Observations on the Chemical Composition of Precipitation in an Industrial Area and Its Use in Air Quality Assessment, W85-02129	1804 5B	Some Observations on the Chemical Composition of Precipitation in an Industrial Area and Its Use in Air Quality Assessment, W85-02129
<b>BHABHA ATOMIC RESEARCH CENTRE, BOMBAY (INDIA). DIV OF RADIOLOGICAL PROTECTION.</b>		<b>BHABHA ATOMIC RESEARCH CENTRE, BOMBAY (INDIA). DIV OF RADIOLOGICAL PROTECTION.</b>
Wet Deposition of Cadmium, Lead and Copper at Deonar (Bombay) and its Relationship with Rainfall, W85-06888	1812 5B	Wet Deposition of Cadmium, Lead and Copper at Deonar (Bombay) and its Relationship with Rainfall, W85-06888
<b>BHABHA ATOMIC RESEARCH CENTRE, BOMBAY (INDIA). HEALTH PHYSICS DIV.</b>		<b>BHABHA ATOMIC RESEARCH CENTRE, BOMBAY (INDIA). HEALTH PHYSICS DIV.</b>
Heavy Metals in the Bombay Harbour Area, W85-04892	1809 5C	Heavy Metals in the Bombay Harbour Area, W85-04892

## ORGANIZATIONAL INDEX

### BHABHA ATOMIC RESEARCH CENTRE, BOMBAY (INDIA). HEALTH PHYSICS DIV.

Sponge Sentinel of Heavy Metals, W85-06431	1812 5A	Residue Levels of Organochlorine Insecticides in Sewage Plant Effluent, W85-06875	1812 5B	Note on Flow Structure in the Great Ouse Estuary, W85-03107	1806 2L	
Effect of Environmental Parameters on Lysosomal Marker Enzymes in the Tropical Blood Clam <i>Anadara granosa</i> , W85-06522	1812 5C	<b>BIOLOGISCH CENTRUM, HAREN (NETHERLANDS).</b>	Use of a Model to Assess Factors Affecting the Oxygen Balance in the Water of the Dollard, W85-01839	1804 2L	Integrated Hydrochemical Approach to Deduce the Response of an Aquifer System During Its History of Abstraction, W85-03153	1806 2F
<b>BHAGALPUR UNIV. (INDIA).</b>		<b>BIOLOGISCHE ANSTALT HELGOLAND (GERMANY, F.R.)</b>		Oxidation Ditches - Principles and Innovations, W85-03721	1807 5D	
Limnology of Badua Reservoir of Bhagalpur, Bihar, W85-04080	1808 2H	Gas Chromatographic-Mass Spectrometric Investigations on Lipophilic Anthropogenic Substances in Marine Organisms; I. A Clean-up-Procedure Consisting of Liquid-Liquid and Reversed Phase (Octadecyl)-Partitioning, W85-04986	1810 5A	Reliability of Packer Tests for Estimating the Hydraulic Conductivity of Aquifers, W85-03773	1808 2F	
<b>BIDHAN CHANDRA KRISHI VISWA VIDYALAYA, MOHANPUR (INDIA). DEPT. OF AGRICULTURAL ENGINEERING.</b>		<b>BIORESEARCH LABS. INC., HAIFA (ISRAEL).</b>		Temperature Distributions in Tidal Flow Field, W85-03804	1808 2L	
Note on Lewis-Kostiakov's Infiltration Equation, W85-06746	1812 2G	PCBs, DDTs and Other Chlorinated Hydrocarbons in Marine Organisms from the Mediterranean Coast of Israel, W85-04894	1809 5B	Evaluation of a Moving-Co-ordinate System Model of Salinity Intrusion into the Mersey Estuary, W85-04528	1809 2L	
<b>BIERMAN (SHELDON L.) AND ASSOCIATES, WASHINGTON, DC.</b>		<b>BIRKBECK COLL., LONDON (ENGLAND).</b>	Electromagnetic Device for Automatic Detection of Bedload Motion and Its Field Applications, W85-01276	1803 2J	Note on the Prediction of Dissolved Oxygen Concentration in Estuaries, W85-04529	1809 2L
Use of Isotope Methods in Hydrogeology, W85-04109	1808 2F	<b>DEPT. OF BOTANY.</b>	Influence of Sulphide on the Distribution of Higher Plants in Salt Marshes, W85-03741	1807 2L	Brief Review of Kriging and its Application to Optimal Interpolation and Observation Well Selection, W85-05003	1810 2F
<b>BIESBOSCH WATER STORAGE CORP. (NETHERLANDS).</b>		<b>DEPT. OF GEOGRAPHY.</b>	Nature of the Tile-Drain Outfall Hydrograph in Heavy Clay Soils, W85-01614	1803 2G	Mathematical Modelling of Tidal Currents in the Humber Estuary, W85-05516	1810 2L
Quality Aspects of the Biesbosch Reservoirs, W85-01979	1804 5G	<b>Wetting and Drying of a Grazed and Ungrazed Clay Soil,</b> W85-04250	1808 2G	Note on Turbulent Perturbations of Salinity in a Partially Mixed Estuary, W85-05689	1810 2L	
<b>BIGELOW LAB. FOR OCEAN SCIENCES, WEST BOOTHBAY HARBOR, ME.</b>		<b>BIRMINGHAM UNIV. (ENGLAND). DEPT. OF CIVIL ENGINEERING.</b>	Unreliability of Open Observation Boreholes in Unconfined Aquifer Pumping Tests, W85-00331	1801 4B	Assessment of Non-Stationarity in Annual Series Through Evolutionary Spectra, W85-06055	1811 2A
Appearance of PCBs in the Surficial Sediments of Casco Bay, Maine, W85-04382	1808 5B	Investigation of Outliers in Annual Maximum Flow Series, W85-01171	1803 2E	Interference Due to Neighboring Wells During Pumping Tests, W85-06826	1812 2F	
<b>BINNIE AND PARTNERS, LONDON (ENGLAND).</b>		Model Study of Jet-Induced Circulation and Mixing in a Reservoir, W85-01523	1803 8B	<b>BIRMINGHAM UNIV. (ENGLAND). DEPT. OF GEOLOGICAL SCIENCES.</b>		
Aquifer Studies Using Flow Simulations, W85-02685	1805 2F	Effects of Baffles on the Performance of Model Waste Stabilization Ponds, W85-01719	1804 5D	Use of Resistivity and Gamma Logging in Lithostratigraphical Studies of the Chalk in Lincolnshire and South Humberside, W85-03772	1808 7B	
Developments in Materials and Design Techniques for Sewerage Systems, W85-04517	1809 8A	Numerical Method of Pumping Test Analysis Using Microcomputers, W85-02694	1805 4B	Groundwater Chemistry in Southeast Suffolk (U.K.) and Its Relation to Quaternary Geology, W85-04272	1808 2K	
Lumped Parameter Model: Further Application in Chalk Aquifers, U.K., W85-06827	1812 2F	Investigation into the Effect of Different Pumping Regimes on Drawdown in Large Diameter Wells, W85-02826	1806 4B	<b>BLACK AND VEATCH, AURORA, CO.</b>		
<b>BIO CHEM ENVIRONMENTAL SERVICES, INC., SEATTLE, WA.</b>		Boundary Shear in Symmetrical Compound Channels, W85-03010	1806 8B	Ten Years of Experience with Subsurface Injection, W85-06086	1811 5D	
Leavenworth, Washington Case: Environmental Concerns with a Water Treatment Plant Failure, W85-02723	1806 5B	Mathematical Model Study of the Flushing Characteristics of a Shallow Tidal Bay, W85-03052	1806 2L	<b>BLACK AND VEATCH, KANSAS CITY, MO.</b>		
<b>BIO ENGINEERING SCIENCES, INC., ORLANDO, FL.</b>		Hydrochemical Budgets for a Magnesian Lime-stone Catchment in Lowland England, W85-03083	1806 2K	Treatment for Removal of Heavy Metal and Oil from a Piston Ring Manufacturing Waste, W85-05238	1810 5D	
Spray Irrigation of Citrus Waste, W85-05231	1810 5D	<b>BOLOGNA UNIV. (ITALY).</b>		Biodegradation of Chemical Plant Wastewater Containing Dimethylformamide, W85-05432	1810 5D	
<b>BIO-RESOURCES, INC., LOGAN, UT.</b>		Interpolation of the Colebrook Formula for Applying the Hardy Cross Method to Water Distribution Systems (Interpolation de la Formule de Colebrook pour l'Application de la methode de Hardy Cross aux Reseaux de Distribution d'eau), W85-05542	1810 8B			
Aquatic Birds of the White River, Uintah County, Utah, W85-06870	1812 6G	<b>BOLOGNA UNIV. (ITALY). IST. DI AUTOMATICA.</b>				
<b>BIOLOGICAL LAB., COLD SPRING HARBOR, NY.</b>		Identification of Phosphorus Dynamics in Kootenay Lake, Canada, W85-01111	1802 2H			
Water Quality Control and its Effect on the Concentration of Heavy Metals in Port Kembla Harbour, N.S.W., W85-02761	1806 5G					
<b>BIOLOGICAL RESEARCH CENTER, BAGHDAD (IRAQ).</b>						
Age and Growth of <i>Barbus grypus</i> Heckel from a Polluted River, W85-01451	1803 5C					
<b>BIOLOGICAL RESEARCH CENTER, BAGHDAD (IRAQ). DEPT. OF ENVIRONMENTAL POLLUTION.</b>						
Growth and Heavy Metal Removal by Klebsiella aerogenes at Different pH and Temperature, W85-01439	1803 6A					

## ORGANIZATIONAL INDEX

BRITISH COLUMBIA UNIV., VANCOUVER. DEPT. OF GEOGRAPHY.

<b>BOLOGNA UNIV. (ITALY). IST. DI COSTRUZIONI IDRAULICHE.</b>	Probability Distributions of Annual Maxima of Seasonal Hydrological Variables, W85-05906	1811 2E	<b>BOYCE THOMPSON INST. FOR PLANT RESEARCH, ITHACA, NY.</b>	Effects of Low Concentrations of O <sub>3</sub> , Leaf Age and Water Stress on Leaf Diffusive Conductance and Water Use Efficiency in Soybean, W85-06105	1811 2I	<b>BRISTOL POLYTECHNIC (ENGLAND). DEPT. OF COMPUTER STUDIES AND MATHEMATICS.</b>	Optimally Controlled Hydrodynamics for Tidal Power in the Severn Estuary, W85-06560	1812 8B
<b>BOLOGNA UNIV. (ITALY). IST. DI ZOOLOGIA.</b>	Limnology of Suviana-Brasimone Man-Made Lakes: Influence of Pumped Storage Operations on Physical, Chemical and Biological Characteristics, W85-05641	1810 6G	<b>BP EXPLORATION CO. LTD., LONDON (ENGLAND). SEDIMENTOLOGY BRANCH.</b>	Bed Microtopography and Entrainment Thresholds in Gravel-Bed Rivers, W85-05730	1810 2J	<b>BRISTOL UNIV. (ENGLAND). DEPT. OF CIVIL ENGINEERING.</b>	Residual Currents in Port Talbot Harbour; A Mathematical Model Study, W85-06578	1812 2L
<b>BONITO A.G., OSTERBURG (GERMAN D.R.).</b>	Oxygen Concentration of Waters of the Feldberger Lake District on the Basis of Selected Summer Depth Profiles from 1924 through 1962. Part 2: Zansen, Wootzen, Carwitzer Lake, Dreetz and Kruselin (Zum Sauerstoffhaushalt der Gewässer der Feldberger Seenplatte an Hand ausgewählter sommerlicher Tiefenprofile seit 1924 bzw. 1962. Teil 2: Zansen, Wootzen, Carwitzer See, Dreetz und Kruselin), W85-06652	1812 2H	<b>BRANDON UNIV. (MANITOBA). DEPT. OF GEOGRAPHY.</b>	Garrison Diversion Unit - An Update, W85-04574	1809 4A	<b>BRISTOL UNIV. (ENGLAND). RESEARCH UNIT FOR COMPARATIVE ANIMAL RESPIRATION.</b>	Cardio-Respiratory Responses of Rainbow Trout During Recovery from Zinc Treatment, W85-05853	1811 5C
<b>BONN UNIV. (GERMANY, F.R.).</b>	Microbiological Examination of a Two-Stage Wastewater Treatment Plant, 1. Communication: Qualitative and Quantitative Examination of Aerobic and Facultatively Anaerobic Chemoheterotrophic Bacterial Populations (Mikrobiologische Untersuchungen einer zweistufigen Adsorptions-Belebungsanlage, 1. Mitteilung: Qualitative und quantitative Erfassung der aeroben und fakultativ anaeroben chemoheterotrophen Bakterienpopulationen), W85-02737	1806 5D	<b>BREMEN UNIV. (GERMANY, F.R.). FACHBEREICH CHEMIE/BIOLOGIE.</b>	Determination of Organohalogenic Acids in Water Samples (Bestimmung Halogenorganischer Säuren in Wasserproben), W85-01663	1804 5A	<b>BRITISH ANTARCTIC SURVEY, CAMBRIDGE (ENGLAND).</b>	Flow Law for Ice in Polar Ice Sheets, W85-05735	1810 2C
<b>BORDEAUX-1 UNIV., TALENCE (FRANCE). LAB. D'ECOLOGIE FONDAMENTALE ET D'ECOTOXICOLOGIE.</b>	Biaccumulation and Tissue Distribution of Mercury - HgCl <sub>2</sub> and CH <sub>3</sub> HgCl - in Salmo gairdneri After Direct Contamination (Bioaccumulation et Repartition Tissulaire Du Mercure - HgCl <sub>2</sub> et CH <sub>3</sub> HgCl - Chez Salmo gairdneri Apres Contamination Par Voie Directe), W85-02925	1806 5C	<b>BREST UNIV. (FRANCE). LAB. DE CHIMIE ANALYTIQUE.</b>	Pollution on the River Rhine with Halogenated Organic Compounds; an Investigation During a 'Fließende Welle', W85-04360	1808 5A	<b>BRITISH COLUMBIA CANCER RESEARCH CENTER, VANCOUVER. ENVIRONMENTAL CARCINOGENESIS UNIT.</b>	Increased Response of the Rainbow Trout Gonad Cell Unscheduled DNA Repair Assay, W85-05010	1810 5A
<b>BORDEAUX-3 UNIV., TALENCE (FRANCE).</b>	Variation of Organic Matter Extracted from Particles along the Gironde Estuary (France), W85-04372	1808 2L	<b>BREST UNIV. (FRANCE). LAB. DE PHYSIOLOGIE VEGETALE.</b>	Effect of High Chloride Ion Concentrations on the Quantitative Spectrophotometric Determination of Tribromamine in Aqueous Media (Influence des Ions Chlorure sur la Determination Quantitative de la Tribromamine en Milieu Aqueux par Spectrophotometrie d'Absorption Electronique), W85-03547	1807 5A	<b>BRITISH COLUMBIA MINISTRY OF ENVIRONMENT, VANCOUVER. FISH AND WILDLIFE BRANCH.</b>	Integration of Forest and Lake Fertilization: Transport and Transformations of Fertilizer Elements, W85-00147	1801 5G
<b>BOSTON COLL., CHESTNUT HILL, MA.</b>	Water as an Article of Commerce: State Embargoes Spring a Leak Under Sporhase v. Nebraska, W85-05915	1811 6E	<b>BREIDPORT HYDRAULIC CO., CT.</b>	Emergency: Intrusion of Propane into Water Mains, W85-07063	1812 5F	<b>BRITISH COLUMBIA MINISTRY OF ENVIRONMENT, VICTORIA.</b>	Long-Term Phosphorus Sorption in a Brunisol in Response to Dosed-Effluent Loading, W85-06726	1812 5E
<b>BOTANIKAI KUTATOINTEZETE, VACRATOT (HUNGARY).</b>	Microelement Content of Some Submerged and Floating Aquatic Plants, W85-04678	1809 2H	<b>BRIGHAM YOUNG UNIV., PROVO, UT. DEPT. OF BOTANY.</b>	Soil Water and Temperature Response to Prescribed Burning, W85-04071	1808 2G	<b>BRITISH COLUMBIA UNIV., VANCOUVER. DEPT. OF CIVIL ENGINEERING.</b>	Aerobic Sludge Digestion with pH Control - Preliminary Investigation, W85-01660	1804 5D
<b>BOULDER CITY MANAGER, CO.</b>	Does Your Water System Have Hydroelectric Generating Potential, W85-05488	1810 6B	<b>BRIGHAM YOUNG UNIV., PROVO, UT. DEPT. OF CIVIL ENGINEERING.</b>	Using Heat Capacity Mapping Mission (HCMM) Data to Assess Lake Water Quality, W85-02975	1806 5A	<b>BRIDGEPORT HYDRAULIC CO., CT.</b>	Piezometer-Friction Cone Investigation at a Tailings Dam, W85-03428	1807 8A
<b>BOWLING GREEN STATE UNIV., OH. DEPT. OF BIOLOGICAL SCIENCES.</b>	Epilithic and Epipellic Diatoms in the Sandusky River, with Emphasis on Species Diversity and Water Pollution, W85-02545	1805 2E	<b>BRIGHAM YOUNG UNIV., PROVO, UT. DEPT. OF ZOOLOGY.</b>	Treatment of Saline Wastewaters Using a Rotating Biological Contactor, W85-04289	1808 5D	<b>BRITISH COLUMBIA UNIV., VANCOUVER. DEPT. OF GEOGRAPHY.</b>	Kinetics of Carbon Utilization in Treatment of Leachate, W85-03545	1807 5D
<b>Primary Productivity and Spatial Structure of Phytoplithic Growth in Streams in the Great Smoky Mountains National Park, Tennessee, W85-06793</b>	1812 2H	<b>BRIGHAM YOUNG UNIV., PROVO, UT. DEPT. OF ZOOLOGY.</b>	Leaf Litter Processing in Aquatic Systems: A Two Variable Model, W85-00412	1801 2K	<b>BRIGHAM YOUNG UNIV., PROVO, UT. DEPT. OF ZOOLOGY.</b>	Initial Operating Experiences of a Nutrient Removal Process (Modified Bardenpho) at Kelowna, British Columbia, W85-04045	1808 5D	
			<b>BRIGHAM YOUNG UNIV., PROVO, UT. DEPT. OF ZOOLOGY.</b>	Toxicity, Accumulation, and Elimination of Polycyclic Aromatic Sulfur Heterocycles in <i>Daphnia magna</i> , W85-02195	1805 5C	<b>BRITISH COLUMBIA UNIV., VANCOUVER. DEPT. OF GEOGRAPHY.</b>	Charts for Water Hammer in Low Head Pump Discharge Lines Resulting from Water Column Separation and Check Valve Closure, W85-05455	1810 8B
						<b>BRITISH COLUMBIA UNIV., VANCOUVER. DEPT. OF GEOGRAPHY.</b>	Charts for Water Hammer in High Head Pump Discharge Lines Resulting from Pump Failure and Check Valve Closure, W85-06552	1812 8B
						<b>BRITISH COLUMBIA UNIV., VANCOUVER. DEPT. OF GEOGRAPHY.</b>	Land Use Effects on Sediment Yield and Quality, W85-02060	1804 6G
						<b>BRITISH COLUMBIA UNIV., VANCOUVER. DEPT. OF GEOGRAPHY.</b>	Process and Discharge Estimation in Ephemeral Channels, Canadian Rocky Mountains, W85-03196	1806 2E

## ORGANIZATIONAL INDEX

**BRITISH COLUMBIA UNIV., VANCOUVER. DEPT. OF GEOLOGICAL SCIENCES.**

**BRITISH COLUMBIA UNIV., VANCOUVER.  
DEPT. OF GEOLOGICAL SCIENCES.**  
Analysis of the Influence of Fracture Geometry  
on Mass Transport in Fractured Media,  
W85-02666 1805 2F

Thermal Effects of Three-Dimensional Ground-  
water Flow, W85-04339 1808 2F

Comparison of Rainfall-Runoff Modeling Tech-  
niques on Small Upland Catchments, W85-05502 1810 2A

**BRITISH COLUMBIA UNIV., VANCOUVER.  
DEPT. OF GEOPHYSICS AND ASTRONOMY.**  
Glacier Outburst Floods from 'Hazard Lake',  
Yukon Territory, and the Problem of Flood  
Magnitude Prediction, W85-00670 1802 2A

Flow, Thermal Structure, and Subglacial Condi-  
tions of a Surge-Type Glacier, W85-00958 1802 2C

1981-1982 Surge of Hazard Glacier, Yukon Ter-  
ritory, W85-00959 1802 2C

Simulation of the August 1979 Sudden Dis-  
charge of Glacier-Dammed Flood Lake, British  
Columbia, W85-00960 1802 2E

**BRITISH COLUMBIA UNIV., VANCOUVER.  
DEPT. OF OCEANOGRAPHY.**  
Interstitial Water Metabolite Chemistry in a  
Marine Mine Tailings Deposit, Rupert Inlet,  
B.C., W85-00955 1802 5B

Experimental Marine Ecosystem Response to  
Crude Oil and Corexit 9527: Part 2 - Biological  
Effects, W85-04875 1809 5C

Frontal Zone Analysis at the Mouth of a Fjord -  
Jervis Inlet, British Columbia, W85-06876 1812 2L

**BRITISH COLUMBIA UNIV., VANCOUVER.  
INST. OF ANIMAL RESOURCE ECOLOGY.**  
Commentary on Environmental Impact Assess-  
ment for Large Projects Affecting Lakes and  
Streams, W85-01920 1804 6G

Limnological Contrasts and Anomalies in Two  
Adjacent Saline Lakes, W85-05755 1810 2H

**BRITISH GEOLOGICAL SURVEY, LONDON  
(ENGLAND).**  
Generalized Well Function Evaluation for Ho-  
mogeneous and Fissured Aquifers, W85-05537 1810 2F

**BRITISH GEOLOGICAL SURVEY, LONDON  
(ENGLAND). AQUIFER PROPERTIES  
SECTION.**

Use of Pumping Tests to Evaluate a Geothermal  
Reservoir - the Triassic Sandstones at March-  
wood, Southampton, W85-02949 1806 2F

**BRITISH GEOLOGICAL SURVEY, LONDON  
(ENGLAND). HYDROGEOLOGY RESEARCH  
GROUP.**

Selection of Placement Techniques for Water  
Borehole Cementing, W85-05815 1810 8F

**BRITISH GEOLOGICAL SURVEY,  
WALLINGFORD (ENGLAND).**

**HYDROGEOLOGY RESEARCH GROUP.**  
Groundwater Yields from Boreholes in the Mid-  
lands, W85-03800 1808 2F

**BRITISH METEOROLOGICAL OFFICE,  
BRACKNELL (ENGLAND).**  
UK Drought 1984, W85-03731 1807 4A

**BRITISH MUSEUM OF NATURAL HISTORY,  
LONDON (ENGLAND). DEPT. OF BOTANY.**  
Observations on the Phytophobenthos of the Fresh-  
water Thames; I. The Environment, Floristic  
Composition and Distribution of the Macro-  
phytes (Principally Macroalgae), W85-06398 1812 2H

**BRNO UNIV. (CZECHOSLOVAKIA).  
FACTORY OF NATURAL SCIENCES.**  
Influence of Pollution on the Density and Pro-  
duction of Chironomidae (Diptera) in Running  
Waters, W85-00796 1802 5C

Repairs and Reconstruction of Dams in the  
CSSR (Reparaturen und Rekonstruktion von  
Talsperren in der CSSR), W85-03457 1807 8A

**BROCK UNIV., ST. CATHARINES  
(ONTARIO). DEPT. OF BIOLOGICAL  
SCIENCES.**

Seasonal Succession and Microlamina Forma-  
tion in a Meromictic Lake Displaying Varved  
Sediments, W85-06699 1812 2J

**BROOKHAVEN NATIONAL LAB., UPTON,  
NY. DEPT. OF APPLIED SCIENCE.**

Water Conservation, Recycling, and Reuse: U.S.  
Northeast, W85-03064 1806 3D

**BROOKHAVEN NATIONAL LAB., UPTON,  
NY. DEPT. OF ENERGY AND  
ENVIRONMENT.**

Accumulation of Sediment-Associated Viruses  
in Shellfish, W85-00099 1801 5B

**BROOKHAVEN NATIONAL LAB., UPTON,  
NY. TERRESTRIAL AND AQUATIC  
ECOLOGY DIV.**

Effect of Lake pH on Microbial Decomposition  
of Allochthonous Litter, W85-04200 1808 5C

**BROWN AND CALDWELL, EMERYVILLE,  
CA.**

Oxidation of Organic Compounds in Solvent-  
Refined Coal II Wastewater Via Ultraviolet Ir-  
radiation, W85-05273 1810 5D

**BROWN AND CALDWELL, SEATTLE, WA.**

Technical Note: Monochloramine Removal  
from Water by Activated Carbon, W85-05477 1810 5F

**BROWN AND CALDWELL, WALNUT CREEK,  
CA.**

Effect of Plastic Media Configuration on Trick-  
ing Filter Performance, W85-02576 1805 5D

**BROWN AND CALDWELL, WESTWOOD, NJ.**

Industrial Waste Treatment Pilot Plants, W85-02550 1805 5D

**BROWN AND ROOT DEVELOPMENT, INC.,  
HOUSTON, TX.**

Commissioning Pumps and Pump-Turbines,  
W85-02674 1805 8C

**BROWN, BOVERI UND CIE A.G., BADEN  
(SWITZERLAND).**

Data Transmission for Automatic Dam Control  
(Automatisierung in der Talsperrenuberwa-  
chung), W85-01255 1803 4A

Asynchronous Generator; An Alternative to the  
Synchronous Generator for Small Hydroelectric  
Power Stations with Output up to 20,000 kW  
(Der Asynchrongenerator; Eine Alternative zum  
Synchrongenerator fur kleine Wasserkraftanla-  
gen mit einer Leistung bis 20000 kW), W85-01858 1804 8C

**BROWN, VENCE AND ASSOCIATES, SAN  
FRANCISCO, CA.**

Red Hill Disposal Site: A Case Study,  
W85-05368 1810 5E

**BRUSSELS UNIV. (BELGIUM). LAB. DE  
TRAITEMENT DES EAUX ET POLLUTION.**

Annual Cycle of Gross Primary Production and  
Respiration in the Viroin River (Belgium), W85-00413 1801 2H

**BUDAPESTI MUESZAKI EGYESUM  
(HUNGARY).**

Two-Phase Anaerobic Fermentation of Liquid  
Swine Waste to Methane, W85-04659 1809 5D

**BUERO FUER LANDSCHAFTSPLANUNG,  
USTER (SWITZERLAND).**

Erosion Control at High Altitudes (Erosionsbe-  
kampfung im Hochgebirge), W85-01863 1804 4D

**BUILDING RESEARCH ESTABLISHMENT,  
PRINCES RISBOROUGH (ENGLAND).**

Principles of Bioconcentration in Fish,  
W85-03542 1807 5A

Toxicity of Eight Water-Soluble Organic  
Chemicals to *Selenastrum capricornutum*: A  
Study of Methods of Calculating Toxic Values  
Using Different Growth Parameters,  
W85-07159 1812 5A

**BULGARIAN ACADEMY OF SCIENCES,  
SOFIA. CENTRAL LAB. OF CHEMICAL  
ENGINEERING.**

Removal of Phenol from Waste Water by  
Double Emulsion Membranes and Creeping  
Film Pertraction, W85-05036 1810 5D

**BULGARIAN ACADEMY OF SCIENCES,  
SOFIA. INST. OF ZOOLOGY.**

Characteristics of Autopurification in the Ossam  
River, a Tributary of the Danube (Einige Beson-  
derheiten in der Selbstreinigung des Donauzu-  
flusses Ossam), W85-03100 1806 5B

Changing Macroinvertebrate Community Struc-  
ture and Diversity in an Organically Loaded  
River during Its Selfpurification,  
W85-03101 1806 5C

**BULGARIAN ACADEMY OF SCIENCES,  
SOFIA. INST. ZA YADRENA IZSLEDVANIYA  
I YADRENA ENERGETIKA.**

Stability of the Stationary State of a Eutrophic  
Water Pool, W85-06277 1812 5C

**BUNDESAMT FUER UMWELTSCHUTZ,  
BERN (SWITZERLAND).**

Origin of the Heavy Metals in Sewage Sludge  
and in Compost from the Mura Waste and  
Wastewater Works in Biel (Herkunft der  
Schwermetalle im Klarschlamm und im Kom-  
post des Kehricht- und Abwasserwerks Mura in  
Biel), W85-01360 1803 5D

**BUNDESANSTALT FUER  
GEOWISSENSCHAFTEN UND ROHSTOFFE,  
HANOVER (GERMANY, F.R.).**

Carbon and Hydrogen Isotopic Composition of  
Bacterial Methane in a Shallow Freshwater  
Lake, W85-02786 1806 2H

**ORGANIZATIONAL INDEX**  
**BUREAU OF RECLAMATION, DENVER, CO. ENGINEERING AND RESEARCH CENTER.**

<b>BUNDESANSTALT FUER GEWAESSERKUNDE, COBLENZ (GERMANY, F.R.).</b>	
Concept of Pollutant Accumulation in the Discussion on Environmental Protection, Part II: Mechanism and Assessment of Trace Substances in Surface Waters (Zum Begriff der Anreicherung in der Umweltschutzzdiskussion Teil II: Mechanismus und Bewertung der Anreicherung von Spurenstoffen in Gewässern), W85-00962	1802 5B
Contamination of the Federal Main Waterways by Fission Products Effected by the Chinese Nuclear Test from October 16th, 1980 (Über Auswirkungen des Kernwaffenversuches der Volksrepublik China vom 16. 10. 1980 im Bereich der Bundeswasserstrassen), W85-00964	1802 5B
Floods of the Rhine in April and May 1983 (Die Rhein-Hochwasser vom April und Mai 1983), W85-00968	1802 2E
River Gauging by Ultrasonics/Workshop Report Koblenz 1983 (Bericht über die fachliche Aussprache am 14./15. September 1983 in Koblenz), W85-00969	1802 7B
Behavior of Radionuclides in Rivers as Demonstrated in the Case of Co 60 from the Nuclear Power Station Wurgassen/Weser (Über das Verhalten von Radionukliden in Fließgewässern am Beispiel von Co 60 aus dem Kernkraftwerk Wurgassen/Weser), W85-06155	1811 5B
Application of 'Head-Space' Analysis to Determining Readily Volatile Chlorinated Hydrocarbons in Surface Waters (Anwendung des 'Head-Space'-Verfahrens auf die Bestimmung leichtflüchtiger Chlorierter Kohlenwasserstoffe in Oberflächengewässern), W85-07027	1812 5A
<b>BUNDESANSTALT FUER WASSERGUETE, VIENNA (AUSTRIA).</b>	
River Quality Assessment and Monitoring of the Danube - An Example of International Cooperation, W85-01389	1803 6E
<b>BUNDESGESUNDHEITSAMT, BERLIN (GERMANY, F.R.). INST. FUER WASSER-, BODEN- UND LUFTHYGIENE.</b>	
Determination of Nitrate in Drinking Water by Means of Ion Chromatography (Nitratbestimmung im Trinkwasser mit Hilfe der Ionen-Chromatographie), W85-01608	1803 5A
Behaviour of Some PAH, PCB and Organochlorine Pesticides in an Estuary, a Comparison - Exe, Devon, W85-03286	1807 5B
Influence of Phosphonates Upon Phosphate Elimination. 1. Communication: 1-Hydroxyethane-1,1-Diphosphonic Acid (HEDP) (Der Einfluss von Phosphonaten auf die Phosphatelimination 1. Teil: 1-Hydroxyethan-1,1-diphosphonsäure (HEDP)), W85-03590	1807 5D
<b>BUNDESVERSUCHS- UND FORSCHUNGSASTALT ARSENAL, VIENNA (AUSTRIA).</b>	
Borehole Measurements and its Application, Shown by an Example of Two Artesian Wells (Bohrlochmessmethoden und ihre Einsatzmöglichkeiten, Gezeigt am Beispiel zweier Artesischer Brunnen), W85-03445	1807 2F
<b>BURDWAN UNIV. (INDIA). DEPT. OF ZOOLOGY.</b>	
Relationship between Serum Enzymes, Histological Features and Enzymes in Hepatopancreas after Sublethal Exposure to Malathion and Phosphamidon in the Murrel Channa striatus (Bl.), W85-06557	1812 5C
<b>BUREAU D'INGENIEURS-CONSEILS, LAUSANNE (SWITZERLAND).</b>	
Tasks of the Dam Keeper (Les Taches du Gardien de Barrage), W85-01859	1804 4A
<b>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES, ORLEANS (FRANCE).</b>	
Use of the L'vov Platform and Molybdenum Coating for the Determination of Volatile Elements in Thermomineral Waters by Atomic Absorption Spectrometry, W85-06253	1812 5A
<b>BUREAU OF LAND MANAGEMENT, DENVER, CO.</b>	
Influences of Increased Sand Delivery on the Morphology of Sand and Gravel Channels, W85-02979	1806 2J
Design for a Stable Channel in Coarse Alluvium for Riparian Zone Restoration, W85-03135	1806 2E
<b>BUREAU OF LAND MANAGEMENT, LAKEWOOD, CO. DENVER SERVICE CENTER.</b>	
Nonpoint Pollution Control on Public Lands, W85-05957	1811 5G
<b>BUREAU OF LAND MANAGEMENT, VALE, OR.</b>	
Method for Estimating Precipitation Amounts at Remote Field Sites, W85-04667	1809 2B
<b>BUREAU OF LAND MANAGEMENT, WASHINGTON, DC.</b>	
Desertification in the United States, Status and Issues, W85-05125	1810 2D
<b>BUREAU OF METEOROLOGY, MELBOURNE (AUSTRALIA). HYDROMETEOROLOGY BRANCH.</b>	
Hydrology in Tropical Australia and Papua New Guinea, W85-05005	1810 2A
<b>BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS, CANBERRA (AUSTRALIA).</b>	
Surging of Fisher Glacier, Eastern Antarctica: Evidence from Geomorphology, W85-00671	1802 2C
Groundwater Seepage and the Water Balance of a Closed, Freshwater, Coastal Dune Lake: Lake Windermere, Jervis Bay, W85-04698	1809 2F
<b>BUREAU OF RECLAMATION, AMARILLO, TX. SOUTHWEST REGION.</b>	
Consumptive Use on the Navajo Indian Irrigation Project, W85-04224	1808 6D
<b>BUREAU OF RECLAMATION, DENVER, CO. CENTRAL ARIZONA WATER CONTROL STUDY: A CASE FOR MULTIOBJECTIVE PLANNING AND PUBLIC INVOLVEMENT,</b>	
W85-01387	1803 6A
<b>BUREAU OF RECLAMATION, DENVER, CO. APPLIED SCIENCES BRANCH.</b>	
Plankton of Twin Lakes, Colorado, W85-05303	1810 2H
Effects of Operating the Mt. Elbert Pumped-Storage Powerplant on Twin Lakes, Colorado: 1981 Report of Findings, W85-05304	1810 2H
Microsystem Sediment-Water Simulation Study for the Proposed Jordanelle Reservoir, Heber City, Utah, W85-05305	1810 5B
Herbicidal Residues and Environmental Effects from the Experimental Application of Two 2,4-D Formulations to Control Eurasian Watermilfoil, W85-05308	1810 5C
Characterization of Water from LaVerkin Springs, Utah, W85-05309	1810 2K
<b>BUREAU OF RECLAMATION, DENVER, CO. DIV. OF ATMOSPHERIC RESOURCES RESEARCH.</b>	
Southwest Drought Research Program. Final Report, W85-04195	1808 3B
Project Skywater, 1982-83 SCPP Data Inventory, Sierra Cooperative Pilot Project. W85-04212	1808 3B
<b>BUREAU OF RECLAMATION, DENVER, CO. ENGINEERING AND RESEARCH CENTER.</b>	
Assessment of the Environment Effects of Constructing the Three Gorge Project on the Yangtze River, W85-03700	1807 6G
Unit Stream Power Equation for Gravel, W85-03789	1808 2J
Automated Plugging Factor Monitor-Specifications, W85-04210	1808 3A
Use of Discriminant Analysis with Saturation Extract Date to Identify Dispersive Clay Soils, W85-04219	1808 8D
Evaluation of Semicircular Canals, W85-04221	1808 8A
Cation Exchange Pretreatment Studies for High Recovery - Yuma Desalting Plant, W85-04223	1808 3A
Morrow Point Dam and Powerplant, Technical Record of Design and Construction. W85-04225	1808 8A
Computing Degradation and Local Scour, W85-04934	1809 2J
Parker Dam Concrete Core Investigations, W85-04935	1809 8F
Fly Ash and Fly Ash Concrete, W85-04936	1809 8F
Stewart Mountain Dam Concrete Core Analysis - 1983, W85-04938	1809 8A
Water Quality of the Colorado River System: Historical Trends in Concentration Load, and Mass Fraction of Inorganic Solutes, W85-04942	1809 2E
Angostura Reservoir, 1979 Sedimentation Survey, W85-05130	1810 2J
Caballo Reservoir, 1981 Sedimentation Survey, W85-05134	1810 2J

## ORGANIZATIONAL INDEX

### BUREAU OF RECLAMATION, DENVER, CO. ENGINEERING AND RESEARCH CENTER.

Preliminary Study of Solar Ponds for Salinity Control in the Colorado River Basin, W85-05306	1810 3C	Long-Distance, High-Pressure Water Supply System for Bonanza Power Plant, W85-05328	1810 8C	Geochemistry of Great Salt Lake, Utah I: Hydrochemistry Since 1850, W85-05761	1810 2K
Characterization of Glenwood Springs and Dotsoro Springs Waters, W85-05329	1810 2K	<b>BUTLER UNIV., INDIANAPOLIS, IN. HOLCOMB RESEARCH INST.</b> Assessment of Aquatic Resources Altered or at Risk From Acidic Deposition, W85-00936	1802 5B	<b>CALGARY UNIV. (ALBERTA). KANANASKIS CENTRE FOR ENVIRONMENTAL RESEARCH.</b>	
Fly Ash and Fly Ash Concrete, W85-05596	1810 8F	<b>CADIZ UNIV. (SPAIN). DEPT. DE QUIMICA-FISICA.</b> Heavy Metals in Recent Sediments from the Bay of Cadiz, Spain, W85-02764	1806 5B	Fate of Organic Compounds in Mountain Streams in the Marmot Basin: A Process Reactor Model, W85-00406	1801 2K
Development of an Automated Plugging Factor Monitor, W85-05597	1810 3A	<b>CAEN UNIV. (FRANCE). UNIT OF PHARMACEUTICAL SCIENCES.</b> Destruction by Ozone of Amoeba Cysts in Recycled Swimming Pool Water, W85-02725	1806 5D	Sludge Application to Land Compared with a Pasture and a Hayfield: Reduction of Biological Health Hazard Over Time, W85-03863	1808 5E
Use of Cathodic Protection of Buried and Submerged Metals in Corrosion Prevention in Electric Power Installations, W85-05598	1810 8G	<b>CAIRO UNIV. (EGYPT). FACULTY OF ENGINEERING.</b> Significance of Effects in a Reverse Osmosis Desalination Unit, W85-05113	1810 3A	Detection of Giardia Cysts at Low Concentrations in Water Using Nuclepore Membranes, W85-06225	1812 5A
Miscellaneous Power O and M Instructions, W85-05599	1810 8C	<b>CAIRO UNIV., GIZA (EGYPT). DEPT OF CHEMISTRY.</b> Distribution of Carbonates, Bicarbonates, and pH Values in Ground Water of the Nile Delta Region, Egypt, W85-04638	1809 2K	<b>CALGON CORP., PITTSBURGH, PA.</b> Treating and Monitoring Corrosion and Scale in Distribution Systems, W85-00551	1802 5F
Microsystem Sediment-Water Simulation: A Practical Technique for Predicting Reservoir Water Quality, W85-06358	1812 5B	<b>CAIRO UNIV., GIZA (EGYPT). DEPT OF IRRIGATION AND HYDRAULICS.</b> Irrigated Agricultural Expansion Planning in Developing Countries: Investment Scheduling Incorporating Drainage Water Reuse, W85-02142	1804 3F	Water and Wastewater Survey for the Brazilian Merck, Sharp and Dohme Chemical and Pharmaceutical Plant, W85-05251	1810 5D
Synopsis of Insulation Problems at Yellowtail Powerplant, W85-06893	1812 8C	Irrigated Agricultural Expansion Planning in Developing Countries: Income Redistribution Objective, W85-02143	1804 3F	<b>CALIFORNIA INST. OF TECH., PASADENA.</b> Fifty Years of Sedimentation, W85-02263	1805 2J
Influence of Grain Size Distribution on the Undrained Dynamic Properties of Saturated Sand, W85-06905	1812 8D	Irrigated Agricultural Expansion Planning in Developing Countries: Resilient System Design, W85-02144	1804 6A	<b>CALIFORNIA INST. OF TECH., PASADENA. DEPT. OF ENGINEERING SCIENCE.</b> Chrysotile Asbestos in California Surface Waters: From Upstream Rivers Through Water Treatment, W85-00704	1802 5B
Performance of Plastic Canal Linings, W85-06910	1812 8C	<b>CAIRO UNIV., GIZA (EGYPT). FACULTY OF AGRICULTURE.</b> Interactions of the Molluscicide 'Ba/luscide' with Development of Dinitrogen Fixers and Their N2-ase and Respiratory Activities in Water, W85-04058	1808 5C	<b>CALIFORNIA INST. OF TECH., PASADENA. DIV. OF GEOLOGICAL AND PLANETARY SCIENCES.</b> Glacier Surge Mechanism: 1982-1983 Surge of Variegated Glacier, Alaska, W85-04472	1809 2C
<b>BUREAU OF RECLAMATION, DENVER, CO. HYDRAULICS BRANCH.</b> Hydraulic Model Studies on Bulb Turbine Intakes, W85-05307	1810 8C	<b>CALGARY UNIV. (ALBERTA). DEPT. OF BIOLOGY.</b> Responses of Benthic Macroinvertebrate Species to Manipulation of Intertidal Detritus in Carnation Creek, British Columbia, W85-04841	1809 2H	<b>CALIFORNIA INST. OF TECH., PASADENA. GUGGENHEIM JET PROPULSION CENTER.</b> Sapping Processes and the Development of Theater-Headed Valley Networks on the Colorado Plateau, W85-05729	1810 2J
<b>BUREAU OF RECLAMATION, DENVER, CO. POWER AND INSTRUMENTATION BRANCH.</b> Mammal Surveillance System, W85-05311	1810 6G	<b>CALGARY UNIV. (ALBERTA). DEPT. OF GEOGRAPHY.</b> Isotope Geochemistry of Stratified Lake 'A', Ellesmere Island, N.W.T., Canada, W85-03195	1806 2H	<b>CALIFORNIA INST. OF TECH., PASADENA. W.M. KECK LAB. OF ENGINEERING MATERIALS.</b> Transformation and Fate of Organic Esters in Layered-Flow Systems: The Role of Trace Metal Catalysts, W85-02805	1806 5B
<b>BUREAU OF RECLAMATION, SACRAMENTO, CA. MID-PACIFIC REGIONAL OFFICE.</b> Pilot Study of Trace Metal Movement in Soils on Hillslopes in the Coast Ranges, California, W85-06014	1811 5B	Meandering Channel Response to Altered Flow Regime: Milk River, Alberta and Montana, W85-04078	1808 2E	<b>CALIFORNIA STATE COLL., SAN BERNARDINO. DEPT. OF HEALTH SCIENCE AND HUMAN ECOLOGY.</b> Environmental Engineering and Public Health Aspects of Alternate Dairy Waste Management Techniques Designed to Protect Ground Water Quality, W85-02724	1806 5E
<b>BUREAU OF RECLAMATION, WASHINGTON, DC.</b> Russian-English/English-Russian Glossary: Plastics in Hydrotechnical Construction, W85-05577	1810 10D	Trees Scars to Determine the Frequency and Stage of High Magnitude River Ice Drives and Jams, Red Deer, Alberta, W85-04589	1809 7B	<b>CALIFORNIA STATE DEPT. OF FISH AND GAME, MONTEREY. MARINE POLLUTION STUDIES LAB.</b> Relationships between Physiological Stress and Trace Toxic Substances in the Bay Mussel, <i>Mytilus edulis</i> , from San Francisco Bay, California, W85-01350	1803 5C
<b>BURGESS AND NIPLE LTD., COLUMBUS, OH.</b> Control of Nuisance Aquatic Plants With Burlap Screen, W85-04053	1808 4A	<b>CALGARY UNIV. (ALBERTA). DEPT. OF GEOLOGY AND GEOPHYSICS.</b> Channel-Fill Deposits Formed by Aggradation in Deeply Scoured, Superimposed Distributaries of the Lower Kootenai Formation (Cretaceous), W85-05617	1810 2J	Petrowatch: Petroleum Hydrocarbons, Synthetic Organic Compounds, and Heavy Metals in Mussels from the Monterey Bay Area of Central California, W85-02326	1805 5B
Case History of a City's Successful Land Application Program of Liquid Sludge on Sod, W85-05388	1810 5E				
<b>BURHRMANN-TETTERODE N.V., DOETINCHEM (NETHERLANDS).</b> Application of the UASB-Reactor for Anaerobic Treatment of Paper and Board Mill Effluent, W85-07005	1812 5D				
<b>BURNS AND MCDONNELL, KANSAS CITY, MO.</b> Conserving Energy in Water Systems, W85-04404	1808 6B				

## ORGANIZATIONAL INDEX

**CALIFORNIA UNIV., DAVIS. DEPT. OF LAND, AIR AND WATER RESOURCES.**

**CALIFORNIA STATE DEPT. OF FISH AND GAME, RANCHO CORDOVA. PESTICIDE INVESTIGATIONS UNIT.**

Toxicities of Butoxyethanol Ester and Propylene Glycol Butyl Ether Ester Formulations of 2,4-Dichlorophenoxy Acetic Acid (2,4-D) to Juvenile Salmonids, W85-05105 1810 5C

**CALIFORNIA STATE DEPT. OF FISH AND GAME, STOCKTON.**

Decline of Striped Bass in the Sacramento-San Joaquin Estuary, California, W85-06403 1812 5C

**CALIFORNIA STATE DEPT. OF WATER RESOURCES, SACRAMENTO.**

Modeling the California State Water Project, W85-04245 1808 4A

Optimal Operation of California Aqueduct, W85-06033 1811 4A

**CALIFORNIA STATE DEPT. OF WATER RESOURCES, WOODLAND.**

Cost Effective Operation of Urban Water Supply System Using Dynamic Programming, W85-06241 1812 5F

**CALIFORNIA STATE UNIV., FULLERTON. DEPT. OF BIOLOGICAL SCIENCE.**

Analysis of Seaweed Communities in a Disturbed Rocky Intertidal Environment near Whites Point, Los Angeles, Calif., U.S.A., W85-03502 1807 2L

**CALIFORNIA STATE UNIV., LONG BEACH. DEPT. OF MICROBIOLOGY.**

Copper-Binding Characteristics of Exopolymers from a Freshwater-Sediment Bacterium, W85-06144 1811 2H

**CALIFORNIA STATE WATER RESOURCES CONTROL BOARD, SACRAMENTO.**

Toxic Substances Monitoring Program, 1982, W85-06329 1812 5A

1,2-Dichloropropane (1,2-D)-1,3-Dichloropropene (1,3-D), W85-06332 1812 5C

**CALIFORNIA STATE WATER RESOURCES CONTROL BOARD, SACRAMENTO, CA. DIV. OF SURVEILLANCE AND MONITORING.**

California State Mussel Watch, 1981-1983, Biennial Report, W85-06333 1812 5C

**CALIFORNIA UNIV., BERKELEY. DEPT. OF BIOMEDICAL AND ENVIRONMENTAL HEALTH SCIENCES.**

Graphical Analysis of the Interrelationships among Waterborne Asbestos, Digestive System Cancer and Population Density, W85-02708 1806 5C

**CALIFORNIA UNIV., BERKELEY. DEPT. OF CIVIL ENGINEERING.**

Numerical Alternatives in Transient Stream Response, W85-00728 1802 8B

**CALIFORNIA UNIV., BERKELEY. DEPT. OF FORESTRY AND RESOURCES MANAGEMENT.**

Response of Stream Macroinvertebrates to Substrate Size and Heterogeneity, W85-01007 1802 2H

Establishment and Survival of Woody Riparian Species on Gravel Bars of an Intermittent Stream, W85-03016 1806 2A

**CALIFORNIA UNIV., BERKELEY. DEPT. OF GEOLOGY AND GEOPHYSICS.**

Bed Load Transport in a River Meander, W85-03161 1806 2J

Continuum Model for Simultaneous Chemical Reactions and Mass Transport in Hydrothermal Systems, W85-05762 1810 2F

**CALIFORNIA UNIV., BERKELEY. DEPT. OF ZOOLOGY.**

Common Relationship between Precipitation and Grassland Peak Biomass for East and Southern Africa, W85-02544 1805 2B

**CALIFORNIA UNIV., BERKELEY. DIV. OF ENTOMOLOGY AND PARASITOLOGY.**

Sequential Sampling: A Cost-Effective Approach for Monitoring Benthic Macroinvertebrates in Environmental Impact Assessments, W85-00975 1802 6G

**CALIFORNIA UNIV., BERKELEY. GROUP IN BIOSTATISTICS.**

Effect of Population Density on the Results of the Study of Water Supplies in Five California Counties, W85-02707 1806 5C

**CALIFORNIA UNIV., BERKELEY. LAWRENCE BERKELEY LAB.**

Heat and Mass Transfer in a Fault-Controlled Geothermal Reservoir Charged at Constant Pressure, W85-00176 1801 2F

Theory of the Development of Geothermal Systems Charges by Vertical Faults, W85-00177 1801 2F

Responses of Lake Waters to Organic Matter Additions, W85-00998 1802 2H

Nonequilibrium and Equilibrium Sorption with a Linear Sorption Isotherm During Mass Transport through an Infinite Porous Medium: Some Analytical Solutions, W85-02488 1805 2F

Effect of Tortuosity on Fluid Flow Through a Single Fracture, W85-02662 1805 2F

Model for Investigating Mechanical Transport in Fracture Networks, W85-03163 1806 2F

Krafla Geothermal Field, Iceland; 1. Analysis of Well Test Data, W85-03553 1807 2F

Krafla Geothermal Field, Iceland; 2. The Natural State of the System, W85-03554 1807 2F

Krafla Geothermal Field, Iceland; 3. The Generating Capacity of the Field, W85-03555 1807 4B

Krafla Geothermal Field, Iceland; 4. History Match and Prediction of Individual Well Performance, W85-03556 1807 4B

Groundwater Contamination From an Inactive Uranium Mill Tailings Pile: 1. Application of a Chemical Mixing Model, W85-03575 1807 5B

Potential for Aquatic Ecosystems Acidification in the Sierra Nevada, California, W85-04207 1808 5C

**CALIFORNIA UNIV., BERKELEY. NAVAL BIOSCIENCES LAB.**

Environmental Chemistry of 1,2-Propanediol Dinitrate: Azeotrope Formation, Photolysis and Biodegradability, W85-03220 1807 5D

**CALIFORNIA UNIV., BERKELEY. SCHOOL OF PUBLIC HEALTH.**

Evaluation of Public Notification Requirements in California, W85-06583 1812 6E

**CALIFORNIA UNIV., DAVIS.**

Irrigation Scheduling Under Saline High Water Tables, W85-04744 1809 3F

**CALIFORNIA UNIV., DAVIS. DEPT. OF AGRICULTURAL ECONOMICS.**

Distribution of Economic Rents When Irrigated Farmland is Leased: The Case of the Imperial Valley, California, W85-05330 1810 6F

**CALIFORNIA UNIV., DAVIS. DEPT. OF CHEMICAL ENGINEERING.**

Transport and Concentration Controls for Chloride, Strontium, Potassium and Lead in Uvas Creek, a Small Cobble-Bed Stream in Santa Clara County, California, U.S.A.; 2. Mathematical Modeling, W85-04271 1808 2K

**CALIFORNIA UNIV., DAVIS. DEPT. OF CIVIL ENGINEERING.**

Evaluating and Improving Existing Ground-Water Systems, W85-00319 1801 4B

Economics of Improving Well and Pump Efficiency, W85-00333 1801 4B

Risk-Reliability Programming for Optimal Water Quality Control, W85-01336 1803 5G

**CALIFORNIA UNIV., DAVIS. DEPT. OF EARTHQUAKE DEFORMATION OF CENTRIFUGE MODEL BANKS.**

W85-03812 1808 8D

**CALIFORNIA UNIV., DAVIS. DEPT. OF INFILTRATION FROM TRICKLE IRRIGATION SOURCE.**

W85-03816 1808 2G

**CALIFORNIA UNIV., DAVIS. DEPT. OF LINEAR PROGRAMMING MODEL FOR THE CONTROL OF COMBINED SEWER SYSTEMS WITH OFF-LINE STORAGE FACILITIES.**

W85-04576 1809 5G

**CALIFORNIA UNIV., DAVIS. DEPT. OF PHOTOCHEMISTRY AND VOLATILITY OF DREPAMON IN WATER.**

W85-02721 1806 5B

**CALIFORNIA UNIV., DAVIS. DEPT. OF FOLIAR FLUORIDE ACCUMULATION UNDER SPRINKLE IRRIGATION.**

W85-01192 1803 5B

**CALIFORNIA UNIV., DAVIS. DEPT. OF DEVELOPING THE RESOURCE POTENTIAL OF A SHALLOW WATER TABLE.**

W85-01832 1804 3B

**CALIFORNIA UNIV., DAVIS. DEPT. OF EQUIVALENCE OF TWO CONCEPTUAL MODELS FOR DESCRIBING ION EXCHANGE DURING TRANSPORT THROUGH AN AGGREGATED OXISOL.**

W85-02368 1805 2G

**CALIFORNIA UNIV., DAVIS. DEPT. OF SCANNING ELECTRON MICROSCOPE STUDIES OF SURFACE CRUSTS FORMED BY SIMULATED RAINFALL.**

W85-02875 1806 2G

**CALIFORNIA UNIV., DAVIS. DEPT. OF AERIAL PHOTOGRAPHY FOR CONSERVATION INFORMATION AND EDUCATION.**

W85-03353 1807 7B

**CALIFORNIA UNIV., DAVIS. DEPT. OF EFFECTS OF INCREASING DRAINAGE IN THE SAN JOAQUIN VALLEY.**

W85-03657 1807 4A

## ORGANIZATIONAL INDEX

### CALIFORNIA UNIV., DAVIS. DEPT. OF LAND, AIR AND WATER RESOURCES.

Soil Surface Psychrometer for Measuring Humidity and Studying Evaporation, W85-06197	1812 7B	Effect of pH, Application Technique, and Chlorine-to-Nitrogen Ratio on Disinfectant Activity of Inorganic Chloramines with Pure Culture Bacteria, W85-02933	1806 5F	<b>CALIFORNIA UNIV., RIVERSIDE. DEPT. OF EARTH SCIENCES.</b>
Release of Phosphorus and Metals from Soils and Sediments during Dispersion, W85-06207	1812 2J	Electrical Methods of Detecting Contaminated Groundwater at the Stringfellow Waste Disposal Site, Riverside County, California, W85-02858		
Surface Temperature Variability Patterns Within Irrigated Fields, W85-06688	1812 3F	1806 5B		
<b>CALIFORNIA UNIV., DAVIS. DEPT. OF WILDLIFE AND FISHERIES BIOLOGY.</b>		<b>CALIFORNIA UNIV., IRVINE. SCHOOL OF ENGINEERING.</b>		<b>CALIFORNIA UNIV., RIVERSIDE. DEPT. OF SOIL AND ENVIRONMENTAL SCIENCES.</b>
Conservation of Freshwater Fishes of Sri Lanka, W85-00118	1801 5G	Integrity of Interconnected Water Systems, W85-00611	1802 8B	Salinity and Uniformity of Water Infiltration as Factors in Yield and Economically Optimal Water Application, W85-00750
<b>CALIFORNIA UNIV., DAVIS. DIV. OF ENVIRONMENTAL STUDIES.</b>		<b>CALIFORNIA UNIV., LOS ANGELES. DEPT. OF BIOLOGY.</b>		1802 3C
Seasonal Dynamics of the Deep-Chlorophyll Maximum in Castle Lake, California, W85-00890	1802 2H	Physical, Chemical, and Biological Characteristics of a Stratified, Saline, Sulfide Lake in Palau, W85-01593	1803 2H	Nonsingle-Valued Adsorption-Desorption of Bromacil and Diquat by Freshwater Sediments, W85-01123
Vertical Profiles of Primary Productivity, Biomass and Physico-Chemical Properties in Meromictic Big Soda Lake, Nevada, W85-01468	1803 2H	Thermal and Water Relations of Roots of Desert Succulents, W85-03698	1807 2I	1803 5B
Temperature and Transport Patterns in Lake Tahoe: Satellite Imagery, Field Data and a Dynamic Model, W85-02609	1805 2H	<b>CALIFORNIA UNIV., LOS ANGELES. DEPT. OF CIVIL ENGINEERING.</b>		Dimensionless Runoff Curves for Irrigation Borders, W85-01510
Primary Productivity and Precipitation at Castle Lake and Lake Tahoe during Twenty-Four Years, 1959-1982, W85-02650	1805 2H	Extended Identifiability in Aquifer Parameter Identification and Optimal Pumping Test Design, W85-03989	1808 2F	1803 3F
Size-Fractionation of Natural Phytoplankton Communities in Nutrient Bioassay Studies, W85-03697	1807 2H	<b>CALIFORNIA UNIV., LOS ANGELES. DEPT. OF EARTH AND SPACE SCIENCES.</b>		Managing Water Scarcity: An Evaluation of Interregional Transfers, W85-02145
Climatic Forcing: Effects of El Nino on a Small, Temperate Lake, W85-03972	1808 2H	Alpha-Tocopherol Acetate as an Indicator of Municipal Waste Contamination in the Environment, W85-05119	1810 5A	1804 6F
Diurnal Cycle of Stratification in Lake Titicaca: Eddy Diffusion, W85-04567	1809 2H	<b>CALIFORNIA UNIV., LOS ANGELES. DEPT. OF GEOGRAPHY.</b>		Use of Saline Water for Irrigation, W85-03658
Transformations of Nitrogen Following an Epilimnetic Nitrogen Fertilization in Castle Lake, CA: I. Epilithic Periphyton Responses, W85-06397	1812 2H	Actual and Potential Yield for Rainfed and Irrigated Wheat in China, W85-01057	1802 3F	1807 3C
<b>CALIFORNIA UNIV., DAVIS. INST. OF ECOLOGY.</b>		Crop Water Requirements for Rainfed and Irrigated Wheat in China and Korea, W85-06687	1812 6D	Comparison of Methods Used to Estimate Evapotranspiration for Leaching Control, W85-05926
Littoral Phytoplankton Productivity and Biomass as Indicators of Differential Nutrient Loading of Lake Tahoe, W85-02651	1805 5C	<b>CALIFORNIA UNIV., LOS ANGELES. INST. OF GEOPHYSICS AND PLANETARY PHYSICS.</b>		1811 7B
Nitrate Cycling in Lake Titicaca (Peru-Bolivia): The Effects of High-Altitude and Tropicality, W85-04896	1809 2H	Capillary Gas Chromatography Determination of Volatile Organic Acids in Rain and Fog Samples, W85-04959	1809 5A	<b>CALIFORNIA UNIV., RIVERSIDE. DEPT. OF SOILS AND WATER.</b>
<b>CALIFORNIA UNIV., IRVINE.</b>		<b>CALIFORNIA UNIV., LOS ANGELES. OFFICE OF ENVIRONMENTAL SCIENCE AND ENGINEERING.</b>		Management Alternatives: Crop, Water, and Soil, W85-03656
Fluorometric Determination of the DNA Concentration in Municipal Drinking Water, W85-06142	1811 5A	Ecotoxicological Model for Energy Development and the Salton Sea, California, W85-03823	1808 4C	1807 3F
<b>CALIFORNIA UNIV., IRVINE. DEPT. OF CIVIL ENGINEERING.</b>		<b>CALIFORNIA UNIV., LOS ANGELES. SCHOOL OF ENGINEERING AND APPLIED SCIENCE.</b>		<b>CALIFORNIA UNIV., RIVERSIDE. DIV. OF TOXICOLOGY AND PHYSIOLOGY.</b>
Nodal Domain Integration Model of Two-Dimensional Advection-Diffusion Processes, W85-04163	1808 2F	Parameter Identification of Groundwater Aquifer Models: A Generalized Least Squares Approach, W85-02164	1804 2F	Hydrolytic and Metabolic Products of Acephate in Water and Mouse Liver, W85-02813
<b>CALIFORNIA UNIV., IRVINE. ENVIRONMENTAL ANALYSIS DIV.</b>		<b>CALIFORNIA UNIV., LOS ANGELES. SCHOOL OF PUBLIC HEALTH.</b>		1806 5B
Effect of Metal-Rich Sewage Sludge Application on the Bacterial Communities of Grasslands, W85-05047	1810 5C	Epidemiologic Monitoring of Possible Health Reactions of Wastewater Reuse, W85-03639	1807 5C	<b>CALIFORNIA UNIV., SAN DIEGO, LA JOLLA. INST. OF GEOPHYSICS AND PLANETARY PHYSICS.</b>
<b>CALIFORNIA UNIV., IRVINE. PROGRAM IN SOCIAL ECOLOGY.</b>		<b>CALIFORNIA UNIV., RIVERSIDE.</b>		Surface Waves in Basins of Variable Depth, W85-07085
Inorganic Chloramines as Drinking Water Disinfectants: A Review, W85-00705	1802 5F	Reuse of Agricultural Drainage Waters: An Economic Analysis, W85-02978	1806 3C	1812 2H
<b>OR-20</b>		Water, Salinity, and Nitrate Relations of a Citrus Watershed Under Drip, Furrow, and Sprinkler Irrigation, W85-04346	1808 3F	Responses of Phytoplankton to Experimental Nutrient Enrichment in an Amazon Floodplain Lake, W85-02785
				1806 5C
				Amazon Floodplain Lakes: Shape, Fetch, and Stratification, W85-04568
				1809 2H
				Major Ion Chemistry and Sensitivity to Acid Precipitation of Sierra Nevada Lakes, W85-04789
				1809 5C
				Large, Deep Salt Lakes: A Comparative Limnological Analysis, W85-05758
				1810 2H
				<b>CALIFORNIA UNIV., SANTA BARBARA. DEPT. OF BIOLOGICAL SCIENCES.</b>
				Abnormal Reproduction of the Sand Crab Emerita analoga in the Vicinity of a Nuclear Generating Station in Southern California, W85-01365
				1803 5C
				Transport of Carbon, Nitrogen, Phosphorus, and Major Solutes in the Gambia River, West Africa, W85-02220
				1805 2H
				Responses of Phytoplankton to Experimental Nutrient Enrichment in an Amazon Floodplain Lake, W85-02785
				1806 5C
				Amazon Floodplain Lakes: Shape, Fetch, and Stratification, W85-04568
				1809 2H
				Major Ion Chemistry and Sensitivity to Acid Precipitation of Sierra Nevada Lakes, W85-04789
				1809 5C
				Large, Deep Salt Lakes: A Comparative Limnological Analysis, W85-05758
				1810 2H
				<b>CALIFORNIA UNIV., SANTA BARBARA. DEPT. OF GEOGRAPHY.</b>
				Chlorophyll Differences in Mono Lake (California) Observable on Landsat Imagery, W85-06004
				1811 2H

## **ORGANIZATIONAL INDEX**

**CANAL CITIES CONSULTANTS, CAIRO (EGYPT).**

<b>CALIFORNIA UNIV., SANTA BARBARA. DEPT. OF HISTORY.</b>	<b>CAMP, DRESSER AND MCKEE, INC., BOSTON, MA.</b>	Mass Balance Models of Phosphorus in Sediments and Water, W85-02071	1804 2J
Historical Perspective on Salinity and Drainage Problems in California, W85-03655	Constraints to Managing Interstate Aquifer, W85-01577	1803 2F	
<b>CALIFORNIA UNIV., SANTA BARBARA. DEPT. OF MECHANICAL AND ENVIRONMENTAL ENGINEERING.</b>	<b>Using Pilot Plants to Design Facilities,</b> W85-02302	1805 5E	
Entrainment, Deposition, and Transport of Fine-Grained Sediments in Lakes, W85-02055	Air Stripping of Trace Volatile Organics from Wastewater, W85-05291	1810 5D	
Vertical Mixing in Amazon Floodplain Lakes, W85-04569	Pilot Scale Investigations on the Removal of Volatile Organics and Phthalates from Electronics Manufacturing Wastewater, W85-05442	1810 5D	
<b>CALIFORNIA UNIV., SANTA BARBARA. MARINE SCIENCE INST.</b>	<b>Groundwater Management Plan for Study Area 1, Coastal Plain Formations,</b> W85-06334	1812 6F	
Preliminary Observations on the Effects of Flooding and Desiccation upon the Net Photosynthetic Rates of High Intertidal Estuarine Sediments, W85-01594	Purifying Our New England Drinking Waters, W85-07057	1812 5F	
<b>CALIFORNIA UNIV., SANTA CRUZ. DEPT. OF EARTH SCIENCES.</b>	Consultant's Role in Management Advice for Water Utilities, W85-07062	1812 6A	
Linear Unit-Response Functions as Indicators of Recharge Areas for Large Karst Springs, W85-00003	<b>CAMP, DRESSER AND MCKEE, INC., DALLAS, TX.</b>		
Sediment Storage and Terrace Formation in Coyote Gulch Basin, South-Central Utah, W85-04646	Overview of Water Treatment Practices in the United States, W85-03621	1807 5F	
<b>CALIFORNIA UNIV., STOCKTON. COOPERATIVE EXTENSION SERVICE.</b>	<b>CAMP, DRESSER AND MCKEE, INC., MILWAUKEE, WI. ENVIRONMENTAL SCIENCES DIV.</b>		
Salinization of Organic Soils in the Sacramento-San Joaquin Delta of California, W85-05927	Effect of Peat Mining on Fish and Other Aquatic Organisms in the Upper Midwest. W85-06936	1812 4C	
<b>CALVIN COLL., GRAND MI. DEPT. OF ENGINEERING.</b>	<b>CAMP, DRESSER AND MCKEE, INC., WALNUT CREEK, CA.</b>		
Analysis of the Spatial Structure of Properties of Selected Aquifers, W85-06510	Real World Design: Appropriate Technology for Developing Nations, W85-00707	1802 6B	
<b>CAMBRIDGE PUBLIC WORKS DEPT., MD. POLLUTION CONTROL DIV.</b>	Improved Methods of Designing Filter Boxes, W85-02401	1805 5D	
Dewatering by the Cambridge SDS System, W85-02993	<b>CANADA CENTRE FOR INLAND WATERS, BURLINGTON (ONTARIO).</b>		
<b>CAMBRIDGE UNIV. (ENGLAND). DEPT. OF APPLIED MATHEMATICS AND THEORETICAL PHYSICS.</b>	Karst Hydrology of the Bruce Peninsula, Ontario, Canada, W85-00011	1801 2F	
Temporal Moments at Large Distances Downstream of Contaminant Release in Rivers, W85-00174	Karst Hydrogeology Within a Subarctic Peatland: Attawapiskat River, Hudson Bay Lowland, Canada, W85-00012	1801 2A	
Acid Deposition in Rain over Hills, W85-03294	Error Analysis and Simulation of Mirex Behaviour in Lake Ontario, W85-00265	1801 5B	
Contaminant Dispersion as Viewed from a Fixed Position, W85-07084	Coliform Concentrations in Lake Erie - 1966 to 1970, W85-00419	1801 5A	
Should Sewage be Discharged at the Water Surface or Near the Bed, W85-07086	Lake Trout ( <i>Salvelinus namaycush</i> ) Spawning Habitat in Seneca Lake, New York, W85-00924	1802 2H	
<b>CAMBRIDGE WATER DEPT., MA.</b>	Finite Element Analysis of a Radioactive Tritium Patch and a Waste Heat Plume Observed near the Pickering Nuclear Power Generating Station, Lake Ontario, W85-01359	1803 5B	
Water System Operation and Maintenance Utilizing Public Sector Employees and Private Service Contractors, W85-07059	Aquatic Leeches ( <i>Hirudinea</i> ) as Bioindicators of Organic Chemical Contaminants in Freshwater Ecosystems, W85-01958	1804 5A	
<b>CAMP, DRESSER AND MCKEE, INC., ANNANDALE, VA.</b>	Comparison of Sediment Energy-Texture Relationships in Marine and Lacustrine Environments, W85-02058	1804 2J	
Comparing Priority Pollutants in Municipal Sludges, W85-05057	<b>CANAL CITIES CONSULTANTS, CAIRO (EGYPT).</b>		
Regional Authorities Support Small Water Systems in the Americas, W85-00706	Demonstration of Rapid Infiltration Technology, Ismailia, Egypt, W85-03333	1807 5D	
<b>CAMP, DRESSER AND MCKEE, INC., ARLINGTON, VA.</b>			

## ORGANIZATIONAL INDEX

### CANBERRA COLL. OF ADVANCED EDUCATION, BELCONNEN (AUSTRALIA).

<b>CANBERRA COLL. OF ADVANCED EDUCATION, BELCONNEN (AUSTRALIA).</b>					
Ecological Effects of Mine Effluents on the South Esk River, North-eastern Tasmania; III. Benthic Macroinvertebrates, W85-00782	1802 5C	Remote Sensing of Subsurface Water Resources in the U.S. Virgin Islands, W85-00065	1801 7B	<b>CEA CENTRE D'ETUDES NUCLEAIRES DE CADARACHE, SAINT-PAUL-LES-DURANCE (FRANCE). DEPT. DE BIOLOGIE.</b>	
Trace Metal Concentrations in Fish from the South Esk River, Northeastern Tasmania, Australia, W85-02418	1805 5C	Water Resources Appraisal of the College of the Virgin Islands Area, St. Thomas, W85-00066	1801 6B	Comparative Study of Four Automatic Irrigation Devices Applied to the Trickle Irrigation of Maize (Etude Comparative de Quatre Dispositifs d'Irrigation Automatique: Application au maïs Irriguer en Localisé), W85-01061	1802 3F
<b>CANTERBURY UNIV., CHRISTCHURCH (NEW ZEALAND). DEPT. OF CIVIL ENGINEERING.</b>		Land Use, Runoff and Recharge on Selected Watersheds in the U.S. Virgin Islands, W85-01799	1804 4C	<b>CEH INGENIEROS CONSULTORES, CARACAS (VENEZUELA).</b>	
Dam-Break Solution, W85-00724	1802 2E	Effects of Runoff from Undeveloped Versus Lightly Developed Watersheds on Tropical Planktonic Ecosystem, W85-01810	1804 5C	Uribante-Doradas Hydro Development in Venezuela, W85-04783	1809 8A
Perturbation Solution for Dam-Break Floods, W85-02264	1805 8B	<b>CARLETON UNIV., OTTAWA (ONTARIO). DEPT. OF CHEMISTRY.</b>		<b>CEKMECE NUCLEAR RESEARCH AND TRAINING CENTER, ISTANBUL (TURKEY).</b>	
Treatment of Wool Scour Wastewater: Recent Trends in New Zealand, W85-05414	1810 5D	Thorium 230 Determination in Polluted Lake Water - A Study of Interferences, W85-02927	1806 5A	Factors Affecting the Biokinetics of Technetium (95mTc) in Marine Macroalgae, W85-01310	1803 5B
Seepage to Collection Gallery Near Seacoast, W85-05794	1810 2F	<b>CARNEGIE-MELLON UNIV., PITTSBURGH, PA. DEPT. OF CIVIL ENGINEERING.</b>		<b>CENTER FOR ENERGY AND ENVIRONMENT RESEARCH, SAN JUAN, PR.</b>	
<b>CANTERBURY UNIV., CHRISTCHURCH (NEW ZEALAND). DEPT. OF GEOGRAPHY.</b>		Predicting Ground-Water Response to Precipitation, W85-02260	1805 2F	Temporal Changes in Numbers of Suspended Bacteria in a Small Woodland Stream, W85-05672	1810 2H
Controls on Advection Snowmelt in a Maritime Alpine Basin, W85-01042	1802 2C	<b>CAROLINA POWER AND LIGHT CO., NEW HILL, NC. HARRIS ENERGY AND ENVIRONMENTAL CENTER.</b>		<b>CENTER FOR INFECTIOUS DISEASES, ATLANTA, GA. DIV. OF BACTERIAL DISEASES.</b>	
Precipitation Intensity and Variability at Chilton Valley, Near Cass, Southern Alps, W85-06433	1812 2B	Plankton Community of an Acid Blackwater South Carolina Power Plant Impoundment, W85-01498	1803 6G	Waterborne Transmission of Campylobacter Enteritis, W85-02188	1805 5F
<b>CANTERBURY UNIV., CHRISTCHURCH (NEW ZEALAND). DEPT. OF ZOOLOGY.</b>		<b>CARTER INDUSTRIAL PRODUCTS LTD., CROYDON (ENGLAND).</b>		Legionella anisa: A New Species of Legionella Isolated From Potable Waters and a Cooling Tower, W85-05046	1810 5B
Benthic Faunas of Forested Streams and Suggestions for Their Management, W85-03024	1806 2H	Design of Small to Medium Size Cooling Systems, W85-06556	1812 5D	<b>CENTER FOR MARINE BIOTECHNOLOGY, FORT PIERCE, FL.</b>	
<b>CANVIRO CONSULTANTS LTD., KITCHENER (ONTARIO).</b>		<b>CASE WESTERN RESERVE UNIV., CLEVELAND, OH.</b>		Effect of Nitrogen and Fiber Content on the Decomposition of the Waterhyacinth (Eichornia crassipes (Mart.) Solms), W85-03696	1807 2H
Two-Stage Biological Fluidized Bed Treatment of Coke Plant Wastewater for Nitrogen Control, W85-01655	1804 5D	Who Owns the Great Lakes. Posturing for Control of an International Resource, W85-04177	1808 6E	<b>CENTER FOR NATURAL RESOURCE STUDIES, BERKELEY, CA.</b>	
Treatment of Coke Plant Wastewater in the Coupled Predenitrification-Nitrification Fluidized Bed Process, W85-05272	1810 5D	<b>CASE WESTERN RESERVE UNIV., CLEVELAND, OH. DEPT. OF BIOLOGY.</b>		Colorado River, River of Controversy, W85-00276	1801 6E
Treatment of Cyanide-Containing Wastewaters by the Copper-Catalyzed SO <sub>2</sub> /Air Oxidation Process, W85-05422	1810 5D	Effects of Siltation on Embryonic Mortality of Trout, W85-06311	1812 5C	Channel Change, Sediment Transport, and Fish Habitat in a Coastal Stream: Effects of an Extreme Event, W85-05069	1810 2E
<b>CAPE TOWN UNIV. (SOUTH AFRICA). DEPT. OF CHEMICAL ENGINEERING.</b>		<b>CASE WESTERN RESERVE UNIV., CLEVELAND, OH. DEPT. OF GEOLOGICAL SCIENCES.</b>		<b>CENTER FOR TECHNOLOGICAL EDUCATION, HOLON (ISRAEL).</b>	
Micropressor-Based Data Monitoring and Control System for a Continuous Ion Exchange Plant, W85-00251	1801 3A	Nature and Source of Arsenic in Northeastern Ohio Ground Water, W85-00325	1801 5B	Response of Channel Flow to Roughness Heterogeneity, W85-03777	1808 2E
<b>CAPE TOWN UNIV. (SOUTH AFRICA). DEPT. OF ZOOLOGY.</b>		137-Cs and 210-Pb Transport and Geochronologies in Urbanized Reservoirs with Rapidly Increasing Sedimentation Rates, W85-01099	1802 2J	<b>CENTERS FOR DISEASE CONTROL, ATLANTA, GA.</b>	
Studies on the Zoobenthos of Some Southern Cape Coastal Lakes. Spatial and Temporal Changes in the Benthos of Swartvlei, South Africa, in Relation to Changes in the Submerged Littoral Macrophyte Community, W85-04818	1809 2H	Effects of Benthic Macroinvertebrates on the Exchange of Solutes Between Sediments and Freshwater, W85-06005	1811 2K	Water-Related Disease Outbreaks Annual Summary, 1982, W85-04220	1808 5C
<b>CAPITOL DISTRICT LIBRARY COUNCIL FOR REFERENCE AND RESEARCH RESOURCES, TROY, NY.</b>		<b>CASE WESTERN RESERVE UNIV., CLEVELAND, OH. DEPT. OF SYSTEMS ENGINEERING.</b>		<b>CENTRAL ARID ZONE RESEARCH INST., JODHPUR (INDIA).</b>	
Bromide-Oxidation Interactions and THM Formation: A Literature Review, W85-06490	1812 5B	Water Supply for Power in Texas-Gulf Region, W85-03059	1806 3E	Agricultural Droughts and Crop Planning - a Case Study for Western Rajasthan, W85-05076	1810 2B
<b>CARIBBEAN RESEARCH INST., ST. THOMAS, VI.</b>		<b>CAWTHON INST., NELSON (NEW ZEALAND).</b>		Prediction of Droughts in the Indian Arid Region, W85-05084	1810 2B
Effects of Freshwater Runoff on Nearshore Tropical Marine Fisheries, W85-00064	1801 5C	Effects of Mussel Aquaculture on the Nitrogen Cycle and Benthic Communities in Kenepuru Sound, Marlborough Sounds, New Zealand, W85-06211	1812 2L	<b>CENTRAL ELECTRICITY GENERATING BOARD, FAWLEY (ENGLAND). MARINE BIOLOGICAL UNIT.</b>	
				Benthos of a Coastal Power Station Thermal Discharge Canal, W85-02542	1805 5C

## ORGANIZATIONAL INDEX

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, Gif-SUR-YVETTE (FRANCE).**

**CENTRAL ELECTRICITY GENERATING BOARD, LEATHERHEAD (ENGLAND).**

**BIOLOGY DEPT.**

Effects of Power Station Cooling Water Discharges on Aquatic Ecology,  
W85-04507

1809 5C

**CENTRAL ELECTRICITY GENERATING BOARD, LEATHERHEAD (ENGLAND).**

**CENTRAL ELECTRICITY RESEARCH LABS.**

Acidity of Rain in Europe,  
W85-00245

1801 2K

Chemistry of Bulk Precipitation at a Site in Southeast England - I. Small-Scale Spatial Variation, Frequency Distributions and Variation with Time,  
W85-02732

1806 2K

Chemistry of Bulk Precipitation at a Site in Southeast England - II. Relationships Between Ions and Comparison with Other Sites,  
W85-02733

1806 2K

**CENTRAL ELECTRICITY GENERATING BOARD, RATCLIFFE-ON-SOAR (ENGLAND).**

**SCIENTIFIC SERVICES DEPT.**

Short Study of the Influence of a Valley on the Composition of Rainwater,  
W85-00238

1801 5B

Spatial and Temporal Concentration Gradients of PAH (Fluoranthene, Benzo(a)pyrene), gamma-BHC and 2,4-D in Samples of Soil, Soil Water and Ground Water in an Agricultural Research Area,  
W85-03289

1807 5B

Estimated Washout Coefficients for Sulphur Dioxide, Nitric Oxide, Nitrogen Dioxide and Ozone,  
W85-03296

1807 2K

**CENTRAL ELECTRICITY GENERATING BOARD, SOUTHAMPTON (ENGLAND).**

**MARINE BIOLOGICAL LAB.**

Autecology of Cyathura carinata (Crustacea : Isopoda) in a Cooling Water Discharge Lagoon,  
W85-05719

1810 5C

**CENTRAL FLORIDA RESEARCH AND EDUCATION CENTER, SANFORD, FL.**

Growth Characteristics of Aquatic Macrophytes Cultured in Nutrient-Enriched Water: II. Azolla, Duckweed, and Salvinia,  
W85-07144

1812 5D

**CENTRAL GROUND WATER BOARD, LUCKNOW (INDIA).**

**CENTRAL CHEMICAL LAB.**

Chemical Composition of Rain Water with Special Reference to Heavy Metals over Lucknow, Uttar Pradesh in 1981,  
W85-05101

1810 2K

**CENTRAL INLAND FISHERIES RESEARCH INST., MIRZAPUR (INDIA).**

**SUB-CENTER RIHAND DAM.**

Role of the Littoral (Shallow) Zone in Reservoir Productivity,  
W85-06654

1812 2H

**CENTRAL INLAND FISHERIES RESEARCH SUB-STATION, ALLAHABAD (INDIA).**

Effects of Pentachlorophenol (Na PCP) on Survival, Activity and Metabolism in Rhinomugil corsula (Hamilton), Cyprinus carpio (Linnaeus) and Tilapia mossambica (Peters),  
W85-00990

1802 5C

**CENTRAL LAB. OF MEKOROT (ISRAEL).**

Transport Phenomena - New Experimental Results in Hydrodynamical 'Forced Rayleigh Scattering' (Phénomènes de Transport - Nouveaux résultats expérimentaux en diffusion 'Rayleigh forcee' hydrodynamic),  
W85-01745

1804 1A

**CENTRAL MICHIGAN UNIV., MOUNT PLEASANT. DEPT. OF BIOLOGY.**

Artificial Substrates which Release Nutrients: Effects on Periphyton and Invertebrate Succession,  
W85-02479

1805 5C

**CENTRAL RESEARCH INST. OF ELECTRIC POWER INDUSTRY, TOKYO (JAPAN).**

Partitioning of Heavy Metals into Mineral and Organic Fractions in Sediments from a Reservoir,  
W85-00189

1801 2H

**CENTRAL SALT AND MARINE CHEMICALS RESEARCH INST., BHAVNAGAR (INDIA).**

Cellulose Triacetate Membranes for Seawater Desalination,  
W85-05115

1810 3A

Cellulose Triacetate Membranes for Seawater Desalination,  
W85-07096

1812 3A

**CENTRAL SOIL SALINITY RESEARCH INST., KARNAL (INDIA).**

Water Use Planning for Alkali Soils under Reclamation,  
W85-01511

1803 3F

Effect of Land Surface Uniformity on Some Economic Parameters of Irrigation in Sodium Soils Under Reclamation,  
W85-05917

1811 3F

Estimating Water Application Efficiency in Irrigation Checks,  
W85-05930

1811 3F

Hydraulic Properties of a Sandy Loam Soil as Influenced by Salinisation and Desalination,  
W85-05934

1811 2G

**CENTRAL SOIL SALINITY RESEARCH INST., KARNAL (INDIA). DIV. OF SOILS AND AGRONOMY.**

In Situ Water Transmission Characteristics of a Tropical Soil under Rice-Based Cropping Systems,  
W85-06685

1812 2G

**CENTRE CHAMPLAIN DES SCIENCES DE LA MER (QUEBEC).**

Behaviour of Dissolved Iodine in the Upper St. Lawrence Estuary,  
W85-07036

1812 2K

**CENTRE D'ECOLOGIE DE CAMARGUE (FRANCE).**

Geochemistry of the Rhine and the Rhone and Human Impact (La Géochimie du Rhin et du Rhône et L'impact Humain),  
W85-02059

1804 2H

Loading Concentration Models for Phosphate in Shallow Lakes,  
W85-02067

1804 2H

**CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE, BRUSSELS (BELGIUM).**

Behavior of Tritium in the Marine Environment: Uptake and Distribution of Tritiated Water and of Tritiated Organic Compounds in Unicellular and Multicellular Algae,  
W85-03501

1807 5B

**CENTRE D'ETUDES DE LA NEIGE, SAINT-MARTIN D'HERES (FRANCE).**

Space Time Analysis of Hourly Precipitation Measured in the South East of France During the Alps Campaign (Analyse Spatio-temporelle des Précipitations Horaires Mesurées dans le Sud-Est de la France Lors de la Campagne Alpes),  
W85-05017

1810 2B

Physical Properties of Snow (Les Propriétés Physiques de la Neige),  
W85-05543

1810 2C

**CENTRE DES SCIENCES DE L'ENVIRONNEMENT, METZ (FRANCE). LAB. DE TOXICOLOGIE.**

Comparison of the Microtox and Daphnia Test for the Evaluation of Industrial Effluents (Comparaison des Tests Microtox et Daphnia pour l'évaluation de la Toxicité Aigüe d'Effluents Industriels),  
W85-00907

1802 5A

**CENTRE FOR EARTH SCIENCE STUDIES, TRIVANDRUM (INDIA).**

Slumpings of the Valleys Encompassing Idukki Reservoir, Central Kerala, India,  
W85-00961

1802 4D

**CENTRE FOR RESOURCE MANAGEMENT, CANTERBURY (NEW ZEALAND).**

Distribution of Aquatic Macrophytes in Lake Alexandrina, New Zealand,  
W85-03074

1806 2H

**CENTRE FOR WATER RESOURCES DEVELOPMENT AND MANAGEMENT, CALICUT (INDIA).**

Toxicity of Lower than Permissible Levels of Chromium (VI) to the Freshwater Teleost Nuria denicus,  
W85-03043

1806 5C

**CENTRE FOR WATER RESOURCES DEVELOPMENT AND MANAGEMENT, CALICUT (INDIA). WATER QUALITY AND ENVIRONMENT DIV.**

Teratogenic Effects of Chromium (VI) in Environment as Evidenced by the Impact on Larvae of Amphibian Rana tigrina: Implications in the Environmental Management of Chromium,  
W85-04035

1808 5C

**CENTRE FOR WATER RESOURCES, MADRAS (INDIA).**

Watershed Bounded Network Model (WBWN) for Runoff Prediction of Large Basins,  
W85-01237

1803 2E

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, BREST (FRANCE). LAB. DE CHROMATOGRAPHIE.**

Determination of Polyaromatic Hydrocarbons in Scallops (Pecten maximus) by UV Fluorescence and HPLC Combined with UV and Fluorescence Detectors,  
W85-04474

1809 5B

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, Gif-SUR-YVETTE (FRANCE). LAB. DU PHYTOTRON.**

Concept of Drought Adaptation (La Notation d'Adaptation à la Sécheresse),  
W85-02331

1805 2I

Role of the Photoperiod on Drought Adaptation of Cotton (Role de la Photoperiode dans l'Adaptation à la Sécheresse des Cotonniers),  
W85-02336

1805 2I

Changes in the Content of Polyamines and Their Precursors During the Morphogenetic Adaptation in Rape, Brassica napus L. var. oleifera M. a la sécheresse (Variations des teneurs en polyamines et leur précurseurs au Cour de l'adaptation morphogénétique du Colza, Brassica napus L. var. oleifera M. a la sécheresse),  
W85-02338

1805 2I

## ORGANIZATIONAL INDEX

### CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, GRENOBLE (FRANCE). INST.

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, GRENOBLE (FRANCE). INST. DE MECANIQUE DE GRENOBLE.**

Dynamics of Intense Rainy Spells over the South-East of the Massif Central - Meteorological Aspects and Hydrological Applications (Dynamique des Episodes Pluvieux Intenses sur le Sud-Est du Massif Central; Aspects Meteorologiques et Applications Hydrologiques), W85-00391

1801 2B

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, MARSEILLE (FRANCE). LAB. D'ECOLOGIE ET BIOCHIMIE MICROBIENNES DU MILIEU MARIN.**

Bioturbation and Microbial Activity, W85-04704

1809 2L

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, MONTPELLIER (FRANCE).**

**CENTRE D'ETUDES PHYTOSOCIOLOGIQUES ET ECOLOGIQUES LOUIS-EMBERGER.**

Water Balance and Pattern of Root Water Uptake by a Quercus coccifera L. Evergreen Scrub, W85-00207

1801 2I

Simulation of the Utilization of Water and of Plant Production of a Sahelian Phytocenose in Senegal (Simulation de l'utilisation de l'eau et de la production vegetale d'une phytocenose sahelienne du Senegal), W85-01179

1803 2I

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, PARIS (FRANCE).**

Heavy Metals in the Lower Mississippi River, W85-01744

1804 5B

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, STRASBOURG (FRANCE).**

**CENTRE DE SEDIMENTOLOGIE ET DE GEOCHIMIE DE LA SURFACE.**

Nitrogen and Phosphorus Exportation in the Garonne Basin (France), W85-06049

1811 5B

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, TOULOUSE (FRANCE).**

**CENTRE D'ECOLOGIE DES RESSOURCES RENOUVELABLES.**

Influence of a Reduction in Flow on a Mountain River: The Astone (Ariège) (Influence d'une reduction de debit sur un torrent de montagne: l'Astone (Ariège)), W85-00091

1801 6G

Dynamics of Contribution of Nitrogen and Phosphorus to the River Aveyron (Dynamique des apports en nutriments azotes et phosphores à la rivière Aveyron), W85-00092

1801 5C

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, TOULOUSE (FRANCE). INST. DE MECANIQUE DES FLUIDES.**

Simulation of the Behaviour of Nitrogen in Soils (Simulation de l'Impact de Produits Reactifs dans les Sols - Cas de l'Azote), W85-02460

1805 5B

Study and Management Model of Surface-Water Nitrogen Concentration in a Cultivated Catchment (Modele d'Etude et de Gestion de la Teneur en Azote des Eaux de Surface dans un Bassin-Versant sous Culture), W85-02461

1805 5B

**CENTRE NATIONAL DE MACHINISME AGRICOLE DU GENIE RURAL, DES EAUX ET DES FORETS, LYON (FRANCE). LAB. D'HYDROBIOLOGIE.**

Oligochaete Communities as Biological Descriptors of Pollution in the Fine Sediments of Rivers, W85-02771

1806 5C

**CENTRE NATIONAL DE MACHINISME AGRICOLE DU GENIE RURAL, DES EAUX ET DES FORETS, PARIS (FRANCE).**

Direct Acquisition of Rainfall Data on Site (Saisie Directe Sur Le Site de l'information Pluviographique), W85-00388

1801 7B

Methodology for Producing an Inventory of Sites for Small Hydroelectric Schemes Haute-Savoie, a Case Study (Methodologie d'un Inventaire de Sites de Microcentrales Cas de la Haute-Savoie), W85-03587

1807 6A

**CENTRE NATIONAL DE MACHINISME AGRICOLE DU GENIE RURAL, DES EAUX ET DES FORETS, SAINT-MARTIN-D'HERES (FRANCE). DIV. GLACIOLOGIE.**

Use of Aerial Photogrammetry for Traditional Surveys of Fluctuations in Glacial Spits (Utilisation de la Photogrammetrie Aerienne pour les Relevés Traditionnels de Fluctuations des Langues Glaciaires), W85-05020

1810 2C

**CENTRE NATIONAL DE RECHERCHES FORESTIERES, SEICHAMPS (FRANCE). STATION DE SYLVICULTURE ET DE PRODUCTION.**

Interception of Precipitation by Forest Plantations (L'interception des Precipitations par les Peuplements Forestiers), W85-00390

1801 2D

Influence of Soil Drying on the Water Relations and Growth of Douglas Fir (Pseudotsuga menziesii (Mirb.) Franco) (Influence du dessecchement du sol sur le fonctionnement hydrique et la croissance du douglas (Pseudotsuga menziesii (Mirb.) Franco)), W85-02716

1806 2I

**CENTRE OCEANOLOGIQUE DE BRETAGNE, FRANCE.**

Sedimentological and Biological Changes Associated with the Construction of the Oil Terminal of Antifer, France, W85-00563

1802 5C

Ecological Control of Engineering Works in the Maracaibo System, W85-00564

1802 6G

**CENTRE UNIV. DE LUMINY, MARSEILLE (FRANCE).**

Gulf of Fos (France): Main Hydrological Features (1976-1978), W85-03695

1807 2L

**CENTRE UNIV. DE LUMINY, MARSEILLE (FRANCE). LAB. D'HYDROBIOLOGIE**

Impact of Domestic Sewage Pollution on Enzymatic Activities of Two Planktonic Copepods (*Acartia clausi* and *Centropages typicus*) (Impact d'une Pollution d'Origine Urbaine sur les Activites Enzymatiques de deux Copepodes Planctoniques (*Acartia Clausi* et *Centropages typicus*)), W85-01898

1804 5C

**CENTRE UNIV. DE LUMINY, MARSEILLE (FRANCE). LAB. D'OCEANOGRAPHIE.**

Contribution to the Study of Phosphate Ion Desorption During the Dilution of Urban Sewage Outfalls in the Marine Environment, W85-04380

1808 5B

**CENTRE UNIV. DE LUMINY, MARSEILLE (FRANCE). LAB. DE BIOLOGIE DES INVERTEBRES MARINS.**

Effects of the Marseilles' Sewage Outfall on Meiofauna Populations (Effets du Diversement en mer du Grand Collecteur de l'Agglomeration Marseillaise sur les Populations Meiofauniques), W85-05619

1810 5C

**CENTRO DE EDAFOLOGIA Y BIOLOGIA APLICADA DEL CUARTO, SEVILLE (SPAIN).**

Acid Mine-Water and Agricultural Pollution in a River Skirting the Donana National Park, (Guadiamar River, South West Spain), W85-04293

1808 5B

**CENTRO DE ENERGIA NUCLEAR NA AGRICULTURA, PIRACICABA (BRAZIL).**

Amazon Basin: A System in Equilibrium, W85-01499

1803 2A

**CENTRO DE ESTUDIOS HIDROGRAFICOS, MADRID (SPAIN).**

Applicability of the OECD Eutrophication Models to Spanish Reservoirs, W85-05637

1810 2H

**CENTRO DI RICERCA IDRUALICA E STRUTTURALE, MILAN (ITALY).**

Refrigerator-Heat-Pump Desalination Scheme for Fresh-Water and Salt Recovery, W85-02957

1806 3A

**CENTRO INTERNACIONAL DE AGRICULTURA TROPICAL.**

Water Use Efficiency of Cassava. I. Effects of Air Humidity and Water Stress on Stomatal Conductance and Gas Exchange, W85-01108

1802 2I

Water Use Efficiency of Cassava. II. Differing Sensitivity of Stomata to Air Humidity in Cassava and Other Warm-Climate Species, W85-01109

1802 2I

**CESKE VYSOKE UCENI TECHNICKE V PRAZE. DEPT. OF NUCLEAR CHEMISTRY.**

Migration and Speciation of Lead in a River System Heavily Polluted From a Smelter, W85-04484

1809 5B

**CESKE VYSOKE UCENI TECHNICKE V PRAZE. FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE.**

Hydro Energy in Czechoslovakia, W85-05816

1810 8A

**CESKE VYSOKE UCENI TECHNICKE V PRAZE. FAKULTA JADERNA A FYSIKALNE INZENYRSKA.**

Cumulation of Zinc, Cadmium and Mercury on the Alga *Scenedesmus obliquus*, W85-06268

1812 5C

**CESKOSLOVENSKA AKADEMIE VED, PRAGUE. HYDROBIOLOGICKA LAB.**

Organic Carbon in a Eutrophic Fishpond, W85-02566

1805 2H

**CESKOSLOVENSKA AKADEMIE VED, PRAGUE. J. HEYROVSKY INST. OF PHYSICAL CHEMISTRY AND ELECTROCHEMISTRY.**

Techniques of Electrochemical Determination of Organic Pollutants in Water, W85-02311

1805 5A

Electrochemical Measurement of Dissolved Oxygen in Water, W85-02314

1805 5A

Electrochemical Methods and Sensors for Monitoring of Water, W85-02315

1805 7B

**CESKOSLOVENSKA AKADEMIE VED, PRAGUE. USTAV TEORIE INFORMACE A AUTOMATIZACE.**

Optimization Model for the Economic Control of Reservoir Eutrophication, W85-01112

1802 2H

**CESKOSLOVENSKA AKADEMIE VED, TREBON. DEPT. OF HYDROBOTANY.**

Simple Cultivation Unit for the Evaluation of Algal Growth Potential and Toxicity of Water, W85-04983

1810 7B

## ORGANIZATIONAL INDEX

**CLARIDA CONSULTING ENGINEERING SERVICES, MARION, IL.**

<b>Heat Balance Components and Evapotranspiration from a Sedge-Grass Marsh,</b> W85-06370	1812 2D	<b>CHELSEA COLL., LONDON (ENGLAND).</b> <b>DEPT. OF BIOLOGY.</b> Note on Some Investigations Carried out in the Area of the Sudan Plain to be Affected by the Jonglei Canal, W85-01028	1802 6G	<b>CHUO UNIV., TOKYO (JAPAN). DEPT. OF INDUSTRIAL CHEMISTRY.</b> Behavior of Cadmium in Short-Necked Clam, W85-05686	1810 5C
<b>CH2M HILL CANADA LTD., CALGARY (ALBERTA).</b> Pollution Control Implications of Fluidized Bed Technology for Coal-Fired Steam Electric Power Generation. W85-05575	1810 5C	<b>CHEQUEMAGON NATIONAL FOREST, PARK FALLS, WI.</b> Method for Measuring Oxygen in Aquatic Microzoones, W85-04312	1808 2K	<b>CHUO UNIV., TOKYO (JAPAN). INST. OF GEOSCIENCES.</b> Response of Alluvial Rivers to Slow Active Tectonic Movement, W85-06517	1812 2J
<b>CH2M/HILL, DENVER, CO.</b> Concurrent Development of an Industrial Waste Pretreatment Program and Residual Solids Management Plan, W85-02572	1805 5D	<b>CHEVRON RESEARCH CO., RICHMOND, CA.</b> Waste Water Treating Process, W85-02863	1806 5D	<b>CIBA-GEIGY CORP., GREENSBORO, NC. AGRICULTURAL DIV.</b> Mathematical Modeling Application to Environmental Risk Assessments, W85-06769	1812 5B
<b>Fast-Track Design, Construction, and Start-Up of a Cheese Manufacture Wastewater Pretreatment Plant,</b> W85-05569	1810 5D	<b>CHICAGO-KENT COLL. OF LAW, IL.</b> Endangered Species Act and Western Water Rights, W85-06531	1812 6E	<b>CICESE, P.O. BOX 4844, SAN YSIDRO, CA 92073.</b> Evolution of the Community at a Station Exposed to Sewage (Marseille-Cortiou) (Evolution Du Peuplement D'une Station Soumise A Des Apports D'Eaux D'Egout (Marseille-Cortiou)), W85-04709	1809 5C
<b>CH2M HILL, INC., CORVALLIS, OR.</b> Survey of Combined Trickling Filter and Activated Sludge Processes, W85-03329	1807 5D	<b>CHICAGO UNIV., IL. DEPT. OF GEOPHYSICAL SCIENCES.</b> Quantitative Estimates of the Effect of Lake Michigan on Snowfall, W85-03846	1808 2B	<b>CINCINNATI UNIV. MEDICAL CENTER, OH. INST. OF ENVIRONMENTAL HEALTH.</b> Biological Health Risks Associated with the Composting of Wastewater Treatment Plant Sludge, W85-04291	1808 5E
<b>CH2M HILL, INC., GAINESVILLE, FL.</b> Innovative Sampling Techniques for Ground Water Monitoring at Hazardous Waste Sites, W85-03171	1806 7B	<b>CHILDREN'S HOSPITAL MEDICAL CENTER, BOSTON, MA.</b> Lead in Umbilical Blood, Indoor Air, Tap Water, and Gasoline in Boston, W85-03339	1807 5C	<b>CINCINNATI UNIV., OH. DEPT. OF CHEMISTRY.</b> Iodomethane as a Potential Metal Mobilizing Agent in Nature, W85-02350	1805 5B
<b>CH2M HILL, INC., PORTLAND, OR.</b> Computing Water System Development Charges, W85-03613	1807 6C	<b>CHILE UNIV., SANTIAGO. CENTRE DE RECURSOS HIDRAULICOS.</b> Space-Time Finite-Element Model for Two-Stream Unconfined Aquifer Systems, W85-02491	1805 2F	<b>CHILE UNIV., SANTIAGO. DEPT. DE BIOLOGIA.</b> Temporal and Spatial Distribution of Rotifera in a Chilean Reservoir: A Possible Effect of Impoundment Hydrodynamics, W85-02481	1805 2H
<b>CH2M HILL INTERNATIONAL CORP., GAINESVILLE, FL.</b> History of Desalting Water in the Virgin Islands, W85-06692	1812 3F	<b>CHIN SHAN NUCLEAR POWER STATION (TAIWAN).</b> Auxiliary Demineralization System for Liquid Radioactive Waste, W85-05266	1810 5D	<b>CHINESE UNIV. OF HONG KONG, SHATIN. DEPT. OF BIOLOGY.</b> Growth of Enteromorpha linza in Sewage Effluent and Sewage Effluent-Seawater Mixtures, W85-01475	1803 5D
<b>CH2M HILL, MONTGOMERY, AL.</b> Computer-Assisted Water System Analysis and Design for Charleston, S.C., W85-01907	1804 5F	<b>CHI SHAN NUCLEAR POWER STATION (TAIWAN).</b> Heavy Metals in Ulva lactuca Collected within Tolo Harbour, An Almost Landlocked Sea, W85-01762	1804 5B	<b>CINCINNATI UNIV., OH. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.</b> Priority Pollutant Removal by Activated Sludge Treatment: Monitoring Phenols from Dye and Pigment Waste, W85-05265	1810 5D
<b>CH2M HILL, NEWPORT BEACH, CA.</b> Removing Giardia Cysts with Slow Sand Filtration, W85-04831	1809 5F	<b>CHI SHAN NUCLEAR POWER STATION (TAIWAN).</b> Sewage Sludge for Cultivating Freshwater Algae and the Fate of Heavy Metal at Higher Trophic Organisms; IV. Heavy Metal Contents in Different Trophic Levels, W85-02237	1805 5E	<b>BIOLOGICAL TREATABILITY OF PHOTOPROCESSING WASTEWATER: PART I,</b> W85-05560	1810 5D
<b>CH2M/HILL, RESTON, VA.</b> Integrating Water Quality and Construction Grants Management, W85-02583	1805 5G	<b>CHI SHAN NUCLEAR POWER STATION (TAIWAN).</b> Effects of Diesel Oil and Oil Dispersants on Growth, Photosynthesis, and Respiration of Chlorella salina, W85-07158	1812 5C	<b>CITY COLL., NEW YORK. DEPT. OF BIOLOGY.</b> Use of Free-Living Nematodes as a Bioassay for Estuarine Sediments, W85-01354	1803 5A
<b>CHADWICK AND ASSOCIATES, LITTLETON, CO.</b> Coal Mine Drainage Effects on a Lotic Ecosystem in Northwest Colorado, U.S.A., W85-00991	1802 5C	<b>CHRYSLER CORP., KOKOMO, IN. TRANSMISSION PLANT.</b> Oil Waste Treatment and Reclamation in the Automotive Industry, W85-05245	1810 5D	<b>CITY COLL., NEW YORK. DEPT. OF CIVIL ENGINEERING.</b> Effect of Soil Depth on Wastewater Renovation, W85-06609	1812 5D
<b>CHALMERS UNIV. OF TECHNOLOGY, GOETEBORG (SWEDEN). DEPT. OF ANALYTICAL AND MARINE CHEMISTRY.</b> Simultaneous Determination of Partition Coefficients and Acidity Constants of Chlorinated Phenols and Guaiacols by Gas Chromatography, W85-02115	1804 5A	<b>CHULALONGKORN UNIV., BANGKOK (THAILAND). DEPT. OF MARINE SCIENCE.</b> Heavy Metals and Polycyclic Hydrocarbon Compounds in Benthic Organisms of the Upper Gulf of Thailand, W85-01484	1803 5B	<b>CITY UNIV., LONDON (ENGLAND). THERMO-FLUIDS ENGINEERING RESEARCH CENTER.</b> Dynamic Response of Check Valves, W85-00199	1801 8C
Potentiometric Stripping Analysis for Manganese(II) in Natural Waters, W85-02798	1806 5A	<b>CIVIL ENGINEERING DEPT., SALLAH AL-DIN UNIVERSITY, ARBIL, IRAQ.</b> Effect of Drain Tube Openings on Drainage and Subirrigation, W85-04748	1809 4A	<b>CIVIL ENGINEERING DEPT., SALLAH AL-DIN UNIVERSITY, ARBIL, IRAQ.</b> Effect of Drain Tube Openings on Drainage and Subirrigation, W85-04748	1809 4A
<b>CHARLESTON COLL., SC. GRICE MARINE BIOLOGICAL LAB.</b> Terrestriality in the Cyprinodont Fish Rivulus marmoratus: Potential Utility in H2S and Other Bioassays, W85-01089	1802 5A	<b>CLARIDA CONSULTING ENGINEERING SERVICES, MARION, IL.</b> Pretreatment Plant Under Every Lawn, W85-06840	1812 5D	<b>CLARIDA CONSULTING ENGINEERING SERVICES, MARION, IL.</b> Pretreatment Plant Under Every Lawn, W85-06840	1812 5D
<b>CHELSEA COLL., LONDON (ENGLAND).</b> <b>DEPT. OF BIOLOGICAL SCIENCES.</b> Silver and Other Metals in Some Aquatic Bryophytes from Streams in the Lead Mining District of Mid-Wales, Great Britain, W85-05702	1810 5B				

## ORGANIZATIONAL INDEX

### **CLARK (PHILIP J.), CORNING, NY.**

**CLARK (PHILIP J.), CORNING, NY.**  
Landspreading of Sludge in New York State,  
W85-05391 1810 5E

**CLARKSON COLL. OF TECHNOLOGY,  
POTSDAM, NY. DEPT. OF CIVIL AND  
ENVIRONMENTAL ENGINEERING.**  
Simulation of Growth and Decay of River Ice  
Cover,  
W85-01559 1803 2C

Algal-Availability of Particulate Phosphorus  
from Diffuse and Point Sources in the Lower  
Great Lakes Basin,  
W85-02061 1804 2K

Effect of Ice Cover on Hydropower Production,  
W85-02444 1805 8B

Unified Degree-Day Method for River Ice  
Cover Thickness Simulation,  
W85-06551 1812 2C

**CLARKSON COLL. OF TECHNOLOGY,  
POTSDAM, NY. DEPT. OF MECHANICAL  
AND INDUSTRIAL ENGINEERING.**

Gravity Current Upstream of a Buoyant Influx  
in an Open-Channel Flow: A Numerical Study,  
W85-00175 1801 8B

**CLARKSON UNIV., POTSDAM, NY. DEPT.  
OF ECONOMICS.**

Effect of Acidification Damages on the Economic  
Value of the Adirondack Fishery to New  
York Anglers,  
W85-07034 1812 5C

**CLEANSWAY LTD., RAYLEIGH (ENGLAND).**

Comparison of Different Methods of Estimating  
Infiltration at a Landfill Site in South Essex with  
Implications for Leachate Management and  
Control,  
W85-03767 1808 5G

**CLEMSON UNIV., SC.**

Recovery of Hot Water, Dyes and Auxiliary  
Chemicals from Textile Wastestreams,  
W85-00252 1801 5D

Design Manual, Municipal Wastewater Stabilization  
Ponds,  
W85-05133 1810 5D

**CLEMSON UNIV., SC. BELLE W. BARUCH  
FOREST SCIENCE INST.**

Sediment Concentrations from Intensively Prepared  
Wetland Sites,  
W85-02112 1804 4C

**CLEMSON UNIV., SC. DEPT. OF  
AGRICULTURAL ENGINEERING.**

Dynamics of Water in Zea mays L.: Sensitivity  
Analysis of TROIKA,  
W85-03372 1807 2I

Tillage Effects on Crop Yield in Coastal Plain  
Soils,  
W85-06079 1811 2G

**CLEMSON UNIV., SC. DEPT. OF  
BIOLOGICAL SCIENCES.**

Particulate Matter Distribution and Heating Patterns  
in a Small Pond,  
W85-02610 1805 2H

Influence of Water Table and Atmospheric CO<sub>2</sub>  
Concentration on the Carbon Balance of Arctic  
Tundra,  
W85-02857 1806 2G

Comparison of the Accuracy and Precision of  
Several Open-water Oxygen Productivity Techniques,  
W85-04390 1808 2H

Vertical Distribution of Potentially Pathogenic  
Free-Living Amoebae in Freshwater Lakes,  
W85-06135 1811 2H

**CLEMSON UNIV., SC. DEPT. OF BOTANY.**  
Quiescence, Growth and Senescence of *Egeria*  
*densa* in Lake Marion,  
W85-04858 1809 2H

**CLEMSON UNIV., SC. DEPT. OF  
ECONOMICS.**

Environmental Control and Regional Growth,  
W85-04755 1809 6G

**CLEMSON UNIV., SC. DEPT. OF  
ENVIRONMENTAL SYSTEMS  
ENGINEERING.**

Benthal Stabilization of Organic Carbon and Nitrogen:  
The Development of Interstitial Profiles,  
W85-03873 1808 5D

Wastewater Treatment by Overland Flow,  
W85-05400 1810 5D

Removal of Metal Ions from Wastewater by  
Algae,  
W85-05426 1810 5D

Overland Flow Wastewater Treatment at  
Easley, South Carolina,  
W85-07050 1812 5D

**CLEMSON UNIV., SC. DEPT. OF FORESTRY.**  
Waterlogging Tolerance of Lowland Tree Species  
of the South,  
W85-02111 1804 2I

Sediment and Nutrient Export in Runoff from  
Burned and Harvested Pine Watersheds in the  
South Carolina Piedmont,  
W85-06714 1812 5B

**CLERMONT-FERRAND-2 UNIV., AUBIERE  
(FRANCE).**

Contribution to a Study of the Sediments of a  
Oligomesotrophic Lake of Volcanic Origin  
(Lake Pavin, France) (Contribution a l'étude du  
sédiment d'un lac oligomesotrophe d'origine volca-  
nique (Lac Pavin, France)),  
W85-01019 1802 2H

Contribution to a Study of a Hydrogen Sulfide  
Layer in a Meromictic Lake (Lake Pavin,  
France) (Contribution a l'étude d'une Couche de  
Hydrogène Sulfure en lac Meromictique (Lac  
Pavin, France)),  
W85-01020 1802 2H

**CLEVELAND STATE UNIV., OH. DEPT. OF  
CIVIL ENGINEERING.**

Batch Reactor Activated Sludge Treatment of  
Milk Processing Wastewaters,  
W85-00212 1801 5D

Batch Adsorption of Organic Pollutants from  
Oxidation Pond Effluents Using Fly Ashes,  
W85-05445 1810 5D

**CLEVELAND STATE UNIV., OH. DEPT. OF  
GEOLOGICAL SCIENCES.**

Geochemical Study of Lake Erie Water Near  
Cleveland, Ohio,  
W85-00810 1802 2H

**CLYDE, PRATT, GIBBS AND CAHOON, SALT  
LAKE CITY, UT.**

Legal and Institutional Barriers to Transfers and  
Reallocation of Water Resources,  
W85-04187 1808 6E

**CLYDE RIVER PURIFICATION BOARD,  
EAST KILBRIDE (SCOTLAND).**

Long Term Monitoring of the Macrobenths of  
the Upper Clyde Estuary,  
W85-01412 1803 2L

**COASTAL ENGINEERING RESEARCH**

**CENTER, FORT BELVOIR, VA.**  
Suspended Sediment Transport and Beach Pro-  
file Evolution,  
W85-01503 1803 2J

Geological Character and Mineral Resources of  
South Central Lake Erie,  
W85-06907 1812 2H

Longshore Sand Transport Study at Channel  
Islands Harbor, California,  
W85-06918 1812 2J

Method to Forecast Sedimentation Rates Result-  
ing from the Settlement of Suspended Solids  
within Semiclosed Harbors,  
W85-06929 1812 2J

**COASTAL ENVIRONMENTS, INC., BATON  
ROUGE, LA.**

Renewal and Use of the Mississippi River Del-  
taic Plain,  
W85-00579 1802 6G

**COCHIN UNIV. (INDIA). DEPT. OF MARINE  
SCIENCES.**

Studies on the Distribution of Organic Matter  
Content in Sediments of the Ashtamudy Lake,  
Kerala,  
W85-01463 1803 2L

Spatial Correlation of the Southwest Monsoon  
Rainfall Over the Southern Districts of Kerala,  
W85-01464 1803 2B

Microbial Indicators and Pathogens near the  
Mouth Region of Vembanad Lake,  
W85-01465 1803 5B

Some Aspects of the Rainfall of Kerala and  
Adjoining Areas I. The Southwest Monsoon  
Rainfall of Cochin,  
W85-01466 1803 2B

Studies on Droughts of Tamil Nadu with Special  
Reference to Their Spread and Severity,  
W85-05073 1810 2B

Agroclimatic Approach to the Assessment of  
Tropical Droughts,  
W85-05080 1810 2B

**COCHIN UNIV. (INDIA). SCHOOL OF  
ENVIRONMENTAL STUDIES.**

Development and Ecodisaster: A Lesson from  
Cochin Backwater System,  
W85-00580 1802 5C

**COFFIN AND RICHARDSON, INC., BOSTON,  
MA.**

Leak Detection and Unaccounted-for Water  
Analysis,  
W85-04021 1808 6C

**COLD REGIONS RESEARCH AND  
ENGINEERING LAB., HANOVER, NH.**

Ice Cover Melting in a Shallow River,  
W85-01713 1804 2C

Effects of Magnetic Particles on the Unfrozen  
Water Content of Frozen Soils Determined by  
Nuclear Magnetic Resonance,  
W85-03093 1806 2G

Transport of Water in Frozen Soil: III. Experi-  
ments on the Effects of Ice Content,  
W85-03477 1807 2G

Similarity Solutions to the Second Boundary  
Value Problem of Unsaturated Flow Through  
Porous Media,  
W85-04156 1808 2G

Transport of Water in Frozen Soil; IV. Analysis  
of Experimental Results of the Effects of Ice  
Content,  
W85-04161 1808 2G

## ORGANIZATIONAL INDEX

### COLORADO UNIV. AT BOULDER. SCHOOL OF LAW.

Role of Heat and Water Transport in Frost Heaving of Fine-Grained Porous Media Under Negligible Overburden Pressure, W85-04167	1808 2C	COLORADO STATE UNIV., FORT COLLINS. From Excess Infiltration to Aquifer Recharge: A Derivation Based on the Theory of Flow of Water in Unsaturated Soils, W85-02665	1805 2A	Measurements and Estimation in Hydrology - Ideas and Proposals for the Quantification of Errors and Uncertainties (Messungen und Schätzungen in der Hydrologie - Gedanken und Vorschläge zur Quantifizierung der Fehler und Unsicherheiten), W85-04805	1809 7B
Heating Enclosed Wastewater Treatment Facilities with Heat Pumps, W85-04924	1809 6A	Fluorite Precipitation in a Calcareous Soil Irrigated with High Fluoride Water, W85-02873	1806 2G	Estimating Mean Velocity in Mountain Rivers, W85-06038	1811 2E
Rheology of Glacier Ice, W85-05112	1810 2C	Effect of Soil Processes on the Acidification of Water by Acid Deposition, W85-06614	1812 5B	Two-Phase Numerical Model for Prediction of Infiltration: Applications to a Semi-Infinite Soil Column, W85-06515	1812 2G
Analysis of River Wave Types, W85-05500	1810 2E	<b>COLORADO STATE UNIV., FORT COLLINS. COOPERATIVE EXTENSION SERVICE.</b>			
Exploration of a Rigid Ice Model of Frost Heave, W85-05791	1810 2C	Unsaturated Soil Hydraulic Properties from Redistribution of Injected Water, W85-03386	1807 2G	<b>COLORADO STATE UNIV., FORT COLLINS. DEPT. OF ECONOMICS.</b>	
<b>COLLEGE OF MILITARY ENGINEERING, POONA (INDIA). DEPT. OF CIVIL ENGINEERING.</b>		Water Requirements for Coal-fired Power Plants, W85-01241			
Nomogram for Velocities of Partial Flows in Sewers, W85-06022	1811 2E	1803 6D			
<b>COLLEGE OF ST. PAUL AND ST. MARY, CHELTENHAM (ENGLAND).</b>		<b>COLORADO STATE UNIV., FORT COLLINS. DEPT. OF ZOOLOGY AND ENTOMOLOGY.</b>			
Environmental Impact of an Opencast Operation in the Forest of Dean, England, W85-03824	1808 4C	Macroinvertebrates and Fish of a Colorado Stream During a Period of Fluctuating Discharge, W85-00295			
<b>COLLIER, SHANNON, RILL AND SCOTT, WASHINGTON, DC.</b>		1801 2H			
Citizen Suits Against Private Industry Under the Clean Water Act, W85-04184	1808 6E	Influence of Highway Construction on the Macroinvertebrates and Epilithic Algae of a High Mountain Stream, W85-01470			
<b>COLLINS ENGINEERS, INC., CHICAGO, IL.</b>		1803 5C			
Inspection Methods for Water Tanks and Reservoirs, W85-03277	1807 5F	Effects of Sediment Releases from a Reservoir on Stream Macroinvertebrates, W85-01471			
<b>COLORADO AGRICULTURAL EXPERIMENT STATION, FORT COLLINS.</b>		1803 5C			
Application of the Potential Concept to Soil Water Equilibrium and Transport, W85-05178	1810 2G	Stream Regulation of the Upper Colorado River: Channel Configuration and Thermal Heterogeneity, W85-05666			
<b>COLORADO COOPERATIVE FISHERY RESEARCH UNIT, FORT COLLINS.</b>		1810 6G			
Colorado Cooperative Fishery Research Unit Studies of Twin Lakes, Colorado: 1980 Report of Findings, W85-04937	1809 5C	<b>COLORADO STATE UNIV., FORT COLLINS. NATURAL RESOURCES ECOLOGY LAB.</b>			
Predicted Effects of Increasing Salinity on the Crustacean Zooplankton Community of Pyramid Lake, Nevada, W85-05754	1810 6G	Rocky Mountain Acidification Study, W85-06359			
<b>COLORADO DEPT. OF HEALTH, DENVER. DISEASE CONTROL AND EPIDEMIOLOGY DIV.</b>		1812 5C			
Waterborne Disease in Colorado: Three Years' Surveillance and 18 Outbreaks, W85-05521	1810 5F	<b>COLORADO UNIV. AT BOULDER. DEPT. OF ENVIRONMENTAL, POPULATION, AND ORGANISMIC BIOLOGY.</b>			
<b>COLORADO DEPT. OF NATURAL RESOURCES, DENVER. WEATHER MODIFICATION PROGRAM.</b>		Diel Variation of Nitrogen Fixation in Lake Valencia, Venezuela, W85-02224			
Comparison of the Potential of Cloud Seeding to Enhance Mountain Snowpack in Colorado During Dry, Normal and Wet Winters, W85-04211	1808 3B	1805 2H			
<b>COLORADO RIVER BOARD OF CALIFORNIA, LOS ANGELES.</b>		Acid Precipitation in the Colorado Front Range: An Overview with Time Predictions for Significant Effects, W85-02856			
1983 High Flows on the Colorado River and Their Aftermath, W85-03704	1807 4A	1806 2K			
<b>COLORADO SCHOOL OF MINES, GOLDEN. DEPT. OF CHEMISTRY AND GEOCHEMISTRY.</b>		Chemical Patterns of Bulk Atmospheric Deposition in the State of Colorado, W85-03570			
Effects of Sediment Sorption and Abiotic Hydrolases. I. Organophosphorothioate Esters, W85-06249	1812 5B	1807 5B			
<b>COLORADO STATE UNIV., FORT COLLINS. DEPT. OF CIVIL ENGINEERING.</b>					
Dissolved Solids Hazards in the South Platte Basin, Vol. II: Salt Balance Analysis, W85-00063	1801 5B	<b>COLORADO UNIV. AT BOULDER. DEPT. OF GEOLOGICAL SCIENCES.</b>			
Dissolved Solids Hazards in the South Platte Basin, Vol. I: Salt Transport in the River, W85-00115	1801 5B	Ground Water Redox Reactions: An Analysis of Equilibrium State Applied to Eh Measurements and Geochemical Modeling, W85-02357			
Real Time Irrigation Scheduling via 'Reaching' Dynamic Programming, W85-02155	1804 3F	1805 2F			
Scour Due to Riprap and Improper Filters, W85-03005	1806 8B	<b>COLORADO UNIV. AT BOULDER. INST. OF ARCTIC AND ALPINE RESEARCH.</b>			
Unified Culvert Scour Determination, W85-03013	1806 8B	Supraglacial Re-Sedimentation from Melt-Water Streams on to Snow Overlying Glacier Ice, Sylgjukull, West Vatnajokull, Iceland, W85-00677			
Historical Overview of Cross-Flow Turbine, W85-03328	1807 8C	1802 2J			
<b>COLORADO UNIV. AT BOULDER. SCHOOL OF LAW.</b>					
Surface Rights in Artificial Watercourses, W85-06533				1812 6E	

## ORGANIZATIONAL INDEX

### COLORADO UNIV. AT COLORADO SPRINGS. DEPT. OF GEOLOGY AND APPLIED EARTH

#### COLORADO UNIV. AT COLORADO SPRINGS. DEPT. OF GEOLOGY AND APPLIED EARTH SCIENCES.

Hydrogeochemistry of the Meade Thrust Allochthon, Southeastern Idaho, U.S.A., and Its Relevance to Stratigraphic and Structural Groundwater Flow Control,  
W85-05531 1810 2F

#### COLORADO UNIV. AT DENVER. DEPT. OF CIVIL AND URBAN ENGINEERING.

Optimal Channel Cross Section with Freeboard,  
W85-02448 1805 8A

Hydraulic Jump Properties over a Rough Bed,  
W85-03787 1808 8B

#### COLORADO UNIV., BOULDER.

Effect of Regulation of the Nile River on the Bioproduction of Southeastern Mediterranean Sea,  
W85-02852 1806 6G

#### COLORADO UNIV., BOULDER. SCHOOL OF LAW.

Requirement of Beneficial Use as a Cause of Waste in Water Resource Development,  
W85-01247 1803 6E

#### COLUMBIA NATIONAL FISHERIES RESEARCH LAB., LA CROSSE, WI. FIELD RESEARCH STATION

Species Composition of Fish Communities in Northern Wisconsin Lakes: Relation to pH,  
W85-04206 1808 5C

Comparative Analyses of Fish Populations in Naturally Acidic and Circumneutral Lakes in Northern Wisconsin,  
W85-05132 1810 5C

#### COLUMBIA NATIONAL FISHERIES RESEARCH LAB., MO.

Rate of Kepone and Mirex in the Aquatic Environment,  
W85-00160 1801 5B

Bioavailability of Pb and Zn from Mine Tailings as Indicated by Erythrocyte delta-Aminolevulinic Acid Dehydratase (ALA-D) Activity in Suckers (Pisces: Catostomidae),  
W85-01918 1804 5A

Environmental and Chemical Factors Influencing the Biodegradation of Phthalic Acid Esters in Freshwater Sediments,  
W85-02743 1806 5B

Xenobiotic Perturbation of Microbial Growth as Measured by CO<sub>2</sub> Uptake, in Aquatic Heterotrophic Bacteria,  
W85-02885 1806 5A

Cancer in Wild Freshwater Fish Populations with Emphasis on the Great Lakes,  
W85-02886 1806 5A

National Pesticides Monitoring Program: Residues of Organochlorine Chemicals in Freshwater Fish, 1980-1981,  
W85-05111 1810 5B

#### COLUMBIA NATIONAL FISHERIES RESEARCH LAB., ORONO, ME. FIELD RESEARCH STATION.

Regional Survey of Chemistry of Headwater Lakes and Streams in New England: Vulnerability to Acidification,  
W85-05312 1810 2H

#### COLUMBIA NATIONAL FISHERIES RESEARCH LAB., YANKTON, SD. FIELD RESEARCH STATION.

Effect of Suspended Bentonite Clay on the Acute Toxicity of Glyphosate to Daphnia pulex and Lemma minor,  
W85-02419 1805 5C

Arsenic, Cadmium, Lead, Mercury, and Selenium in Sediments of Riverine and Pothole Wetlands of the North Central United States,  
W85-05472 1810 5A

#### COLUMBIA UNIV., NEW YORK. DEPT. OF CIVIL ENGINEERING.

Darcy's Flow with Variable Permeability: A Boundary Integral Solution,  
W85-02165 1804 2F

#### COMISION ECONOMICA PARA AMERICA LATINA, SANTIAGO (CHILE). DIV. OF NATURAL RESOURCES AND THE ENVIRONMENT.

Economic/Institutional Issues in Sedimentation Management in Developing Countries,  
W85-04443 1809 4D

#### COMMISSION OF THE EUROPEAN COMMUNITIES, BRUSSELS (BELGIUM).

Water Decade (La Decennie de l'Eau),  
W85-01984 1804 6B

#### COMMISSION OF THE EUROPEAN COMMUNITIES, ISPRa (ITALY).

Total Phosphorus Load to Lake Monate (Northern Italy, Varese) (Stima Del Carico Di Fosforo Totale Al Lago Di Monate (Provincia Di Varese, Italia Settentrionale)),  
W85-02501 1805 5B

Availability of Sediment P in Lake Lugano,  
W85-04563 1809 2H

Importance of Macrophytes in Two Lakes with Different Trophic Degree: Lake Comabbio and Lake Monate (Province of Varese, Northern Italy),  
W85-04564 1809 2H

#### COMMISSION OF THE EUROPEAN COMMUNITIES, ISPRa (ITALY). DEPT. OF PHYSICAL AND NATURAL SCIENCES.

Assessment of the Trophic State of a Water Body,  
W85-02328 1805 2H

#### COMMISSION OF THE EUROPEAN COMMUNITIES, ISPRa (ITALY). JOINT RESEARCH CENTRE.

Use of Reprocessing Effluent Radionuclides in the Geochronology of Recent Sediments,  
W85-01098 1802 2L

Sedimentation Rates in a Swiss-Italian Lake Measured with Sediment Traps,  
W85-02100 1804 2J

Internal P Loading in Lakes: A Different Approach to its Evaluation,  
W85-04723 1809 2H

#### COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION,ADELAIDE (AUSTRALIA). DIV. OF SOILS.

Water Relations of Saturated Bentonite: Some Effects of Temperature and Solution Salt Concentration,  
W85-05186 1810 2G

Water Balance Under Wheat Modelled with Limited Soil Data,  
W85-06680 1812 2G

#### COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, ALICE SPRINGS (AUSTRALIA). DIV. OF WILDLIFE AND RANGELANDS RESEARCH.

Use of Landsat Radiance Parameters to Distinguish Soil Erosion, Stability, and Deposition in Arid Central Australia,  
W85-03998 1808 7B

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, ARMIDALE (AUSTRALIA). PASTORAL RESEARCH LAB.

Economical Recording Tipping-Bucket Rain Gauge,  
W85-01067 1802 2B

#### COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, ASPENDALE (AUSTRALIA). DIV. OF ATMOSPHERIC RESEARCH.

Terminology and Concepts in Natural Evaporation,  
W85-06670 1812 2D

Measurement of Evaporation by Meteorological Methods,  
W85-06671 1812 2D

Evaluation of Evapotranspiration and Canopy Resistance: An Alternative Combination Approach,  
W85-06673 1812 2D

#### COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA (AUSTRALIA). DIV. OF ENVIRONMENTAL MECHANICS.

Travel Times from Buried and Surface Infiltration Point Sources,  
W85-02167 1804 2G

Steady Infiltration from Spherical Cavities,  
W85-02318 1805 2G

Nonuniform Leaching from Nonuniform Steady Infiltration,  
W85-02321 1805 2G

Plant Physiological Methods for Studying Evapotranspiration: Problems of Telling the Forest from the Trees,  
W85-06674 1812 2D

#### COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA (AUSTRALIA). DIV. OF FOREST RESEARCH.

Irrigation of Monterey Pine with Wastewater: Effect on Soil Chemistry and Groundwater Composition,  
W85-03855 1808 5D

Water Use by Isolated Trees,  
W85-06677 1812 2E

Model of Canopy Drying,  
W85-06678 1812 2D

#### COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA (AUSTRALIA). DIV. OF PLANT INDUSTRY.

Evaporation from Eucalypts Growing in a Weighing Lysimeter: A Test of the Combination Equations,  
W85-06191 1812 2D

Development and Proving of Models of Large Scale Evapotranspiration: An Australian Study,  
W85-06681 1812 2D

#### COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA (AUSTRALIA). DIV. OF WATER AND LAND RESOURCES.

Relationship Between Atmospheric Nitrogen Deposition and the Stream Nitrogen Profile,  
W85-03084 1806 5B

Distribution of Deuterium and 18O in Dry Soils;  
3. Theory for Non-Isothermal Water Movement,  
W85-03086 1806 2G

## ORGANIZATIONAL INDEX

CONNECTICUT UNIV., GROTON. MARINE SCIENCES INST.

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CLAYTON (AUSTRALIA). DIV. OF CHEMICAL AND WOOD TECHNOLOGY.**

Development of Desalination in Australia,  
W85-06693 1812 3A

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CRONULLA (AUSTRALIA). DIV. OF FISHERIES RESEARCH.**

Deoxygenation and Remineralization Above the Sediment-Water Interface; an In Situ Experimental Study,  
W85-02288 1805 2H

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, FLOREAT PARK (AUSTRALIA). DIV. OF LAND RESOURCES MANAGEMENT.**

Urban Groundwater as a Possible Nutrient Source for an Estuarine Benthic Algal Bloom,  
W85-00662 1802 5B

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, GLEN OSMOND (AUSTRALIA). DIV. OF SOILS.**

Recharge in Karst and Dune Elements of a Semi-Arid Landscape as Indicated by Natural Isotopes and Chloride,  
W85-05530 1810 2F

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, GRIFFITH (AUSTRALIA). CENTRE FOR IRRIGATION RESEARCH.**

Biological and Physicochemical Characteristics of the Ross River Dam, Townsville,  
W85-00783 1802 2H

Wastewater Treatment with Aquatic Plants: Ecotypic Differentiation of *Typha domingensis* Seedlings,  
W85-02590 1805 5D

Short-Term Responses of Young *Typha domingensis* and *Typha orientalis* Plants to High Levels of Potassium Chloride,  
W85-03317 1807 5D

Detoxification of Effluents in a Macrophyte Treatment System,  
W85-04489 1809 5D

Effects of Sodium and Potassium Chlorides on the Growth and Accumulation of Mineral Ions by *Cyperus involucratus* Rottb,  
W85-06803 1812 5C

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, HOBART (AUSTRALIA). MARINE LABS.**

Trace Metals and the Productivity of Shelf Waters off North West Australia,  
W85-03494 1807 5C

Method of Determining and Removing Sulphide to Allow the Determinations of Sulphate, Phosphate, Nitrite and Ammonia by Conventional Methods in Small Volumes of Anoxic Waters,  
W85-06163 1811 5A

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, INDOOROOPILLY (AUSTRALIA). LONG POCKET LABS.**

Nitrogen and Establishment of a Beetle for Biological Control of the Floating Weed *Salvinia* in Papua New Guinea,  
W85-06891 1812 4A

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, NARRABRI (AUSTRALIA). COTTON RESEARCH UNIT.**

Irrigation for Crops in a Sub-Humid Environment, VII. Evaluation of Irrigation Strategies for Cotton,  
W85-05165 1810 3F

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, RYDE (AUSTRALIA). PHYSICAL TECHNOLOGY UNIT.**

Modelling the Transport of Reacting Chemical Contaminants in Natural Streams,  
W85-00778 1802 5B

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, SOUTH MELBOURNE (AUSTRALIA). DIV. OF CHEMICAL TECHNOLOGY.**

Rainfall Patterns in the Western United States,  
W85-00513 1802 2B

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, SYDNEY (AUSTRALIA). DIV. OF MINERAL PHYSICS.**

Green-Ampt Model of Infiltration in a Cracked Soil,  
W85-03569 1807 2G

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, WEMBLEY (AUSTRALIA).**

Responses of Stomata and Leaf Gas Exchange to Vapour Pressure Deficits and Soil Water Content, I. Species Comparisons at High Soil Water Contents,  
W85-02561 1805 2D

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, WEMBLEY (AUSTRALIA). DIV. OF GROUNDWATER RESEARCH.**

Evapotranspiration from a Eucalyptus Community,  
W85-06668 1812 2D

**COMMONWEALTH TECHNOLOGY, INC., LEXINGTON, KY.**

Chemical Flocculation for Suspended Solids Removal at Remote Mine Sites,  
W85-04730 1809 5D

**COMMUNITY BUREAU OF REFERENCE, BRUSSELS (BELGIUM).**

Certification of the Contents of Some Heavy Metals (Cd, Co, Cu, Mn, Hg, Ni, Pb, and Zn) in Three Types of Sewage Sludge,  
W85-03279 1807 5A

**COMMUNITY DEVELOPMENT, CUYOGA FALLS, OH.**

Cuyahoga Falls: A River Returned to the People,  
W85-04178 1808 6G

**COMPAGNIE FRANCAISE DES MINERAIS D'URANIUM, PARIS (FRANCE).**

Water Pollution by Uranium Ore Treatment Works,  
W85-00793 1802 5C

**COMPAGNIE GENERALE DES EAUX, PARIS (FRANCE).**

Study of Mutagenic Activity in Water in a Progressive Ozonation Unit (Etude du Caractere Mutagene de l'Eau dans une Filiere de Production a Ozonation Estagee),  
W85-01987 1804 5F

Nice on the French Riviera - the Birthplace of Drinking Water Treatment with Ozone (Nice, sur la Riviera Francaise - Berceau du Traitement de l'Eau par l'Ozone),  
W85-01988 1804 5F

General Strategy for Security in Water Supply,  
W85-01990 1804 5G

Towards Total Automation of Water Distribution (Vers l'Automatisation Integrale dans la Distribution d'Eau),  
W85-02009 1804 6A

2001 ... The Future of Water Treatment (2001 ... L'Avenir du Traitement de l'Eau),  
W85-02017 1804 6A

Oxidation of Organic Compounds Through the Combination Ozone-Hydrogen Peroxide,  
W85-06212 1812 5F

**CONCAWE, THE HAGUE (NETHERLANDS).**  
Ecological Monitoring of Aqueous Effluents from Petroleum Refineries,  
W85-05582 1810 5A

**CONCEPCION UNIV. (CHILE).**  
Comparison and Selection of Furrow Irrigation Models,  
W85-03484 1807 3F

**CONCEPCION UNIV. (CHILE). DEPT. OF AGRICULTURAL ENGINEERING.**  
Border Irrigation Model Selection,  
W85-06092 1811 3F

**CONCORDIA UNIV., LOYOLA CAMPUS, MONTREAL (QUEBEC).**  
Succession of Planktonic Rotifer Populations in Some Lakes of the Eastern Rift Valley, Kenya,  
W85-00398 1801 2H

**CONCORDIA UNIV., SIR GEORGE WILLIAMS CAMPUS, MONTREAL (QUEBEC). DEPT. OF CIVIL ENGINEERING.**  
Pressure and Source Size Effects on Cavitation Damage,  
W85-03014 1806 8C

**CONNECTICUT AGRICULTURAL EXPERIMENT STATION, NEW HAVEN.**  
Organic Pollutants in Leachates from Landfill Sites,  
W85-01280 1803 5B

**CONNECTICUT AGRICULTURAL EXPERIMENT STATION, NEW HAVEN.**  
DEPT. OF ECOLOGY AND CLIMATOLOGY.  
Enhanced Longitudinal Mixing in a Lake Caused by Inflow-Induced Circulation,  
W85-05501 1810 2H

**CONNECTICUT AGRICULTURAL EXPERIMENT STATION, NEW HAVEN.**  
DEPT. OF SOIL AND WATER.  
Comparison of Water and Dilute Acid Treatment on Organic and Inorganic Chemistry of Leachate from Organic-Rich Horizons of an Acid Forest Soil,  
W85-00219 1801 5B

**CONNECTICUT COLL., NEW LONDON.**  
DEPT. OF BOTANY.  
Salt Marsh Vegetation Change in Response to Tidal Restriction,  
W85-00978 1802 2L

**CONNECTICUT DEPT. OF ENVIRONMENTAL PROTECTION, WATERFORD. MARINE FISHERIES OFFICE.**  
Effects of Fluctuations in Hydrographic Conditions on Year-Class Strength of American Shad (*Alosa sapidissima*) in the Connecticut River,  
W85-02535 1805 2L

**CONNECTICUT UNIV., GROTON. MARINE SCIENCES INST.**  
Nutrient and Trace Metal Geochemistry of a Dredge Plume,  
W85-00289 1801 5B

## ORGANIZATIONAL INDEX

### CONNECTICUT UNIV., STORRS. BIOLOGICAL SCIENCES GROUP.

<b>CONNECTICUT UNIV., STORRS. BIOLOGICAL SCIENCES GROUP.</b>		
Copper and Lead Uptake by Aquatic Macrophytes in Eastern Connecticut, U.S.A., W85-01084	1802 5B	
Predicting the Effect of Macrobenthos on the Sediment/Water Flux of Metals and Phosphorus, W85-04839	1809 2K	
<b>CONNECTICUT UNIV., STORRS. DEPT. OF CHEMISTRY.</b>		
Comparison of Solvent Reduction Methods for Concentration of Polycyclic Aromatic Hydrocarbon Solutions, W85-03670	1807 5A	
<b>CONNECTICUT UNIV., STORRS. DEPT. OF NATURAL RESOURCES CONSERVATION.</b>		
Annotated Bibliography of Remote Sensing for Highway Planning and Natural Resources, W85-00047	1801 10C	
<b>CONNECTICUT UNIV., STORRS. INST. OF WATER RESOURCES.</b>		
Economic, Legal and Institutional Relations Involved in Diversion and Other Interbasin Transfers, W85-06304	1812 6A	
Economic, Legal and Institutional Relations Involved in Diversion and Other Interbasin Transfers, W85-06307	1812 6A	
<b>CONOCO, INC., PONCA CITY, OK.</b>		
AQAT: A Mobile Wastewater Treatability Assessment System, W85-05573	1810 5D	
<b>CONSEIL SUPERIEUR DE LA PECHE, CLERMONT-FERRAND (FRANCE).</b>		
Small Hydroelectric Stations and the Environment (Environnement et petites usines hydroélectriques), W85-00381	1801 6G	
<b>CONSERVATION DE LA FAUNE, SAINT-SULPICE (SWITZERLAND).</b>		
Eutrophication of Lakes Leman and Neuchatel (Switzerland) Indicated by Oligochaete Communities, W85-02772	1806 2H	
<b>CONSERVATION FOUNDATION, WASHINGTON, DC.</b>		
Off-Site Costs of Soil Erosion, W85-05941	1811 5C	
<b>CONSIGLIO NAZIONALE DELLE RICERCHE, BOLOGNA (ITALY). IST. PER LA GEOLOGIA MARINA.</b>		
Heavy Metals in Sediments from Different Environments of a Northern Adriatic Sea Area, Italy, W85-03981	1808 5B	
<b>CONSIGLIO NAZIONALE DELLE RICERCHE, FLORENCE (ITALY).</b>		
Microwave Remote Sensing of Plant Water Stress, W85-03999	1808 7B	
<b>CONSIGLIO NAZIONALE DELLE RICERCHE, PADOVA (ITALY). IST. DI CHIMICA E TECNOLOGIA DEI RADIOELEMENTI.</b>		
pH of the Atmospheric Precipitation in Venice, Related to Both the Dynamics of Precipitation Events and the Weathering of Monuments, W85-04362	1808 5B	
<b>CONSIGLIO NAZIONALE DELLE RICERCHE, TURIN (ITALY). IST. DI RICERCA PER LA PROTEZIONE IDROGEOLOGICA NEL BACINO PADANO.</b>		
Rainfall-Runoff-Sediment Yield Relation by Stochastic Modelling, W85-01138	1803 2J	
<b>CONSIGLIO NAZIONALE DELLE RICERCHE, PISA (ITALY). IST. DI CHIMICA ANALITICA STRUMENTALE.</b>		
Simultaneous Determination of Arsenic, Selenium, Tin and Mercury by Non-Dispersive Atomic Fluorescence Spectrometry, W85-06570	1812 5A	
<b>CONSULTING ENGINEER, AARAU, SWITZERLAND.</b>		
Formulated Formulae for Earthquake-Induced Deformations in Dams, W85-04782	1809 8D	
<b>CONSULTORES DE ENGENHARIA SANITARIA LDA., LISBON (PORTUGAL).</b>		
Investigation into the Hydraulic Resources of a Lagoon in Portugal, W85-04461	1809 5G	
<b>COOK COLL., NEW BRUNSWICK, NJ.</b>		
Environmental Constraints of Sludge Application, W85-01185	1803 5E	
Land Application of Sewage Sludge with Regard to Cropping Systems and Pollution Potential, W85-01291	1803 5B	
Water Law, W85-06933	1812 6E	
<b>COOK COLL., NEW BRUNSWICK, NJ. DEPT. OF ENVIRONMENTAL SCIENCE.</b>		
Reversible and Resistant Components of Hexachlorocyclohexane (Lindane) Sorption to New Jersey Coastal Plain Aquifer Solids, W85-06600	1812 5B	
Materials Balance in the Composting of Wastewater Sludge as Affected by Process Control Strategy, W85-07040	1812 5E	
<b>COOKE (J. BARRY), INC., SAN RAFAEL, CA.</b>		
Progress in Rockfill Dams, W85-01870	1804 8A	
<b>COPENHAGEN UNIV. (DENMARK). INST. OF GENERAL GEOLOGY.</b>		
Pyrite and Siderite Formation in Brackish and Freshwater Swamp Sediments, W85-01300	1803 2K	
<b>COPENHAGEN UNIV. (DENMARK). INST. OF GEOGRAPHY.</b>		
Transport of Suspended Matter in a Bar-built Danish Estuary, W85-00913	1802 2J	
<b>COPENHAGEN UNIV., HILLEROED (DENMARK). DET FERSKVANDS-BIOLOGISKE LAB.</b>		
Diurnal Variation in the Oxygen Uptake of River Sediments in Vitro by Use of Continuous Flow-Through Systems, W85-02069	1804 2E	
Oxygen Demand and Long Term Changes of Profundal Zoobenthos, W85-02770	1806 5C	
Decline of Zoobenthos Through Five Decades of Eutrophication in Lake Esrom, W85-04541	1809 5C	
Quantitative Estimates and Community Structure of Invertebrates in a Macrophyte Rich Stream, W85-06443	1812 2H	
<b>CORDOBA UNIV. (SPAIN).</b>		
Variability in Adaptive Mechanisms to Water Deficits in Annual and Perennial Crop Plants, W85-02332	1805 2I	
<b>CORDOBA UNIV. (SPAIN). DEPT. OF ANALYTICAL CHEMISTRY.</b>		
Spectrophotometric Determination of Cyanide by Unsegmented Flow Methods, W85-03408	1807 5A	
<b>CORNELL UNIV. AGRICULTURAL EXPERIMENT STATION, ITHACA, NY. DEPT. OF AGRONOMY.</b>		
Effects of Water and Salt Stress on Growth and Acetylene Reduction in Alfalfa, W85-03962	1808 2I	
<b>CORNELL UNIV., ITHACA, NY.</b>		
Predicting Direct Recharge of Surficial Aquifers, W85-06080	1811 2F	
<b>CORNELL UNIV., ITHACA, NY. DEPT. OF CITY AND REGIONAL PLANNING.</b>		
Major Institutional Arrangements Affecting Ground Water in New York State, W85-01802	1804 6E	
<b>CORNELL UNIV., ITHACA, NY. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.</b>		
Interactive Water Resources Modeling and Model Use: An Overview, W85-05489	1810 6B	
Interactive Data Management for Resource Planning and Analysis, W85-05493	1810 6A	
Applicability of Effective Parameters for Unsteady Flow in Nonuniform Aquifers, W85-05498	1810 2F	
<b>CORNELL UNIV., ITHACA, NY. DEPT. OF ENVIRONMENTAL ENGINEERING.</b>		
Integer Programming Analysis of the Regionalization of Large Wastewater Treatment and Collection Systems, W85-01340	1803 5F	
Flood-Plain Delineation in Ice Jam Prone Regions, W85-01578	1803 2E	
Stochastic Dynamic Programming Models for Reservoir Operation Optimization, W85-03551	1807 2E	
Algorithms for Optimizing Hydropower System Operation, W85-04786	1809 4A	
Multisite ARMA (1,1) and Disaggregation Models for Annual Streamflow Generation, W85-06504	1812 2E	
<b>CORNELL UNIV., ITHACA, NY. DEPT. OF FOOD SCIENCE.</b>		
Removal of Metals from Sludge Using Chitosan Columns, W85-05994	1811 5D	
<b>CORNELL UNIV., ITHACA, NY. DEPT. OF NATURAL RESOURCES.</b>		
Effects of Long-Term Artificial Flooding on a Northern Bottomland Hardwood Forest Community, W85-00291	1801 6G	
Flooding and SO <sub>2</sub> Stress Interaction in Betula papyrifera and B. nigra Seedlings, W85-00292	1801 2I	
<b>CORNELL UNIV., ITHACA, NY. LAB. OF SOIL MICROBIOLOGY.</b>		
Effect of Substrate Concentration and Organic and Inorganic Compounds on the Occurrence and Rate of Mineralization and Cometabolism, W85-02132	1804 5B	

## ORGANIZATIONAL INDEX

### DAKAR UNIV. (SENEGAL). DEPT. DE PARASITOLOGIE.

Role of Resistance to Starvation in Bacterial Survival in Sewage and Lake Water, W85-02600	1805 5B	Avoidance of Copper and Nickel by Rainbow Trout as Monitored by a Computer-Based Data Acquisition System, W85-01624	1803 5C	CULP/WESNER/CULP, CAMERON PARK, CA. Heavy Snow Loads Plague Reservoir Roof, W85-05482	1810
Effect of Simulated Acid Precipitation on Nitrogen Mineralization and Nitrification in Forest Soils, W85-02956	1806 5C	Toxicity of Sewage Sludge to Rhepoxynius abronius, a Marine Benthic Amphipod, W85-02203	1805 5C	CULP/WESNER/CULP, DENVER, CO. Small Town Conquers Wastewater Tribulations, W85-03276	1807 5D
Cometabolism of Low Concentrations of Propachlor, Alachlor, and Cycloate in Sewage and Lake Water, W85-06138	1811 5B	Effect of Pentachlorophenol on the Growth and Mortality of Embryonic and Juvenile Steelhead Trout, W85-03226	1807 5C	CULP/WESNER/CULP, SANTA ANA, CA. Process Design Manual for Dewatering Municipal Wastewater Sludges, W85-05352	1810 5D
Effect of Simulated Acid Rain on Mycorrhizal Infection of Pinus strobus L., W85-06890	1812 5C	<b>COUNCIL ON ENVIRONMENTAL QUALITY, WASHINGTON, DC.</b>		CUMBERLAND COUNTY PLANNING BOARD, BRIDGETON, NJ. Urban Water Plan, (Cumberland Co., N.J.), W85-00825	1802 6D
<b>CORNELL UNIV., ITHACA, NY. SCHOOL OF CIVIL AND ENVIRONMENTAL ENGINEERING.</b>		Acid Rain: The Data and Monitoring Needs, W85-00508	1802 7A	Raritan River Basin Reservoir System Hydroelectric Feasibility Study: Round Valley and Spruce Run Reservoirs, W85-00826	1802 6C
Refraction-Diffraction Model for Weakly Nonlinear Water Waves, W85-00715	1802 8B	<b>COVENTRY (LANCHESTER) POLYTECHNIC (ENGLAND). DEPT. OF GEOGRAPHY.</b>		D.A.V. COLL., MUZAFFARNAGER (INDIA). DEPT. OF ZOOLOGY. Pollution and Saprobic Status of Eastern Kalinadi, W85-00798	1802 5C
Boundary Integral Solution to Seawater Intrusion Into Coastal Aquifers, W85-02371	1805 2F	Magnetic Susceptibility of Sedimenting Material Trapped in Lough Neagh, Northern Ireland, and Its Erosional Significance, W85-01595	1803 2J	Effect of Mercuric Chloride on Some Biochemical and Physiological Parameters of the Freshwater Murrel, Channa punctatus, W85-02727	1806 5C
Errors in Gran Function Analysis of Titration Data for Dilute Acidified Water, W85-06231	1812 5A	<b>COX, CANNIZZARO AND ASSOCIATES, INC., CENTERPORT, NY.</b>		In Vivo Effects of Cadmium on Some Enzyme Activities in Tissues of the Freshwater Catfish, Heteropneustes fossilis, W85-04434	1809 5C
<b>CORNELL UNIV., ITHACA, NY. SECTION OF ECOLOGY AND SYSTEMATICS.</b>		Study of Combined Acid/Additive Seawater Feed Treatment, W85-07092	1812 3A	Alachlor Toxicity to a Freshwater Teleost Clarias batrachus, W85-04885	1809 5C
Physical, Chemical, and Biological Consequences of Episodic Aluminum Additions to a Stream, W85-05621	1810 5C	<b>COYNE ET BELLIER, PARIS (FRANCE).</b>		Effect of the Carbamate Pesticide Sevin on the Intestinal Absorption of Some Nutrients in the Teleost Fish, Channa punctatus, W85-05697	1810 5C
<b>CORPS OF ENGINEERS, BALTIMORE, MD. BALTIMORE DISTRICT.</b>		Leakage Control Works at the Rouchain Dam, W85-04028	1808 8A	<b>D'APPOLONIA WASTE MANAGEMENT SERVICES, INC., PITTSBURGH, PA.</b>	
Monitoring Total Suspended Solids by Using Nephelometry, W85-00976	1802 5A	<b>CRANFIELD INST. OF TECH. (ENGLAND). DEPT. OF FLUID ENGINEERING AND INSTRUMENTATION.</b>		Leachate Collection System Performance Analysis, W85-02261	1805 5G
<b>CORPS OF ENGINEERS, NEW YORK, NEW YORK DISTRICT.</b>		Behaviour of Turbine, Vortex and Electromagnetic Flowmeters, W85-00198	1801 7B	<b>D.S.B. CONSTITUENT COLL., NAINI TAL (INDIA). DEPT. OF ZOOLOGY.</b>	
Sediment Budget Study of Clamshell Dredging and Ocean Disposal Activities in the New York Bight, W85-04598	1809 6G	<b>CRANFIELD INST. OF TECH. (ENGLAND). SCHOOL OF WATER SCIENCES.</b>		Erythrocytic and Leukocytic Responses to Cadmium Poisoning in a Freshwater Fish, <i>Puntius conchonius</i> Ham, W85-06167	1811 5C
<b>CORPS OF ENGINEERS, PITTSBURGH, PA. PITTSBURGH DISTRICT.</b>		Packaged Boilers: Their Role in Water Pollution, W85-06628	1812 5B	Species Composition, Temporal Abundance and Community Structure of Zooplankton in Lake SatTal (U.P.), India, W85-06401	1812 2H
Attempts to Alleviate Fish Losses from Allegheny Reservoir, Pennsylvania and New York, Using Acoustics, W85-02373	1805 5G	<b>CREWE AND ALSAGER COLL. OF HIGHER EDUCATION, ALSAGER (ENGLAND).</b>		<b>DAKAR UNIV. (SENEGAL). DEPT. DE GEOLOGIE.</b>	
Vascular Ripple Flora of Appalachian Streams: The Ecology and Effects of Acid Mine Drainage on <i>Justicia americana</i> (L.) Vahl, W85-04884	1809 5C	Industrial Development Without Environmental Pollution: Role of Environmental Impact Assessment (EIA), W85-07111	1812 6G	Origin of High Fluorine Contents in Groundwaters from Paleocene Aquifer of Mbour Area (Senegal). Role of the Magnesium Ion (Origine des fortes teneurs en fluor des eaux souterraines de l'aquifère paleocène de la région de Mbour (Senegal). Role de l'ion magnésium), W85-00947	1802 2H
<b>CORPS OF ENGINEERS, SEATTLE, WA. ENVIRONMENTAL RESOURCES SECTION.</b>		<b>CREWE AND ALSAGER COLL. OF HIGHER EDUCATION, ALSAGER (ENGLAND).</b>		<b>DAKAR UNIV. (SENEGAL). DEPT. DE PARASITOLOGIE.</b>	
Primary Production in Grays Harbor Estuary, Washington, W85-02470	1805 2L	Use of Water Boatmen (Corixidae) in the Classification of Lakes, W85-00119	1801 2H	Soil Amoebae as Biological Markers to Estimate the Quality of Swimming Pool Waters, W85-07126	1812 5A
<b>CORPS OF ENGINEERS, VICKSBURG, MS.</b>		Biology and Management of an Inland Saline Lake, W85-06101	1811 2H	<b>OR-31</b>	
Use of Nephelometric Turbidity to Calculate Carlson's Trophic State Index in Keystone Lake Oklahoma, W85-02248	1805 2H	<b>CROWN ZELLERBACH CORP., CAMAS, WA.</b>			
Uptake Efficiency of the Gills of English Sole ( <i>Parophrys vetulus</i> ) for Four Phthalate Esters, W85-03607	1807 5C	Sludge Dewatering and Disposal in the Pulp and Paper Industry, W85-02577	1805 5E		
<b>CORVALLIS ENVIRONMENTAL RESEARCH LAB., NEWPORT, OR. MARINE SCIENCE CENTER.</b>		<b>CUKUROVA UNIV., ADANA (TURKEY). COLL. OF AGRICULTURAL ENGINEERING.</b>			
Dissolved Silicon in the Yaquina Estuary, Oregon, W85-00661	1802 2K	Evaporation and Drift Losses from Sprinkler Irrigation Systems under Various Operating Conditions, W85-06689	1812 3F		
<b>CORVALLIS ENVIRONMENTAL RESEARCH LAB., OR.</b>		<b>CUKUROVA UNIV., ADANA (TURKEY). DEPT. OF CIVIL ENGINEERING.</b>			
Storage-Yield Relationships for Reservoirs by Two Different Procedures, W85-01611	1803 2E	Storage-Yield Relationships for Reservoirs by Two Different Procedures, W85-01611	1812 5A		

## ORGANIZATIONAL INDEX

### DALHOUSIE UNIV., HALIFAX (NOVA SCOTIA). DEPT. OF BIOLOGY.

**DALHOUSIE UNIV., HALIFAX (NOVA SCOTIA). DEPT. OF BIOLOGY.**  
 Plankton of an Acid-Stressed Lake (Kejimkujik National Park, Nova Scotia, Canada); Part 1, Design and Water Chemistry Results of an Enclosure Experiment,  
 W85-02637 1805 2H

Comparison of Plankton-Water Chemistry Relationships in Three Acid Stressed Lakes in Nova Scotia, Canada,  
 W85-04911 1809 2H

### DALHOUSIE UNIV., HALIFAX (NOVA SCOTIA). TRACE ANALYSIS RESEARCH CENTRE.

Determination of Seven Trace Elements in Natural Waters by Neutron Activation Analysis after Preconcentration with 1-(2-Pyridylazo)-2-Naphthol,  
 W85-06165 1811 2K

**DALTON-DALTON-NEWPORT, INC., CLEVELAND, OH.**  
 Preliminary Findings of the Priority Pollutant Monitoring Project of the Nationwide Urban Runoff Program,  
 W85-01661 1804 5A

**DAMES AND MOORE, BETHESDA, MD.**  
 Natural Buffers for Sludge Leachate Stabilization,  
 W85-05383 1810 5E

Project Success: Sensitivity to Project Assumptions, 'The Medellin Case',  
 W85-07000 1812 6A

**DAMES AND MOORE, GOLDEN, CO.**  
 Ground-Water Contamination Due to Transient Sources of Pollution,  
 W85-03781 1808 5B

**DAMES AND MOORE, WASHINGTON, DC.**  
 Natural Buffers for Sludge Leachate Stabilization,  
 W85-00322 1801 5E

**DARTMOUTH COLL., HANOVER, NH. DEPT. OF BIOLOGICAL SCIENCES.**  
 Temperature and Evapotranspiration Gradients of the White Mountains, New Hampshire, U.S.A.,  
 W85-00111 1801 2D

Effects of Canopy Components on Throughfall Chemistry: An Experimental Analysis,  
 W85-02560 1805 2K

**DAUPHIN CONSOLIDATED WATER SUPPLY CO., HARRISBURG, PA.**  
 Impact of Conservation on Rates and Operating Costs,  
 W85-06031 1811 6C

**DAWKINS (WILLIAM P.), STILLWATER, OK.**  
 User's Guide: Computer Program for Design or Investigation of Orthogonal Culverts (CORT-CUL),  
 W85-06985 1812 8A

**DE PAUL UNIV., CHICAGO, IL.**  
 Net Atmospheric Inputs of PCBs to the Ice Cover on Lake Huron,  
 W85-01759 1804 5B

**DE PAUL UNIV., CHICAGO, IL. DEPT. OF BIOLOGICAL SCIENCES.**  
 Diatom Flora of a Kettle-Hole Bog in Relation to Hydrarch Succession Zones,  
 W85-01023 1802 2L

**DEARBORN ENVIRONMENTAL CONSULTING SERVICES, MISSISSAUGA (ONTARIO).**  
 Characterization and Treatability of Drainage Samples from Coal Piles at Steam Electric Power Station.  
 W85-05594 1810 5A

### DELAWARE RIVER BASIN COMMISSION, WEST TRENTON, NJ.

Water Code of the Basin.  
 W85-06335 1812 6E

Delaware River Basin Comprehensive (Level B) Study.  
 W85-06336 1812 6A

Special Ground Water Study, Basinwide Report and Executive Summary.  
 W85-06337 1812 2A

### DELAWARE UNIV., LEWES, COLL. OF MARINE STUDIES.

Chemistry of the Delaware Estuary. General Considerations,  
 W85-01599 1803 2L

Estimating Water Volume Discharge Through Salt-Marsh Tidal Channels: An Aspect of Material Exchange,  
 W85-02998 1806 2L

Nutrient Enrichment of Chesapeake Bay and Its Impact on the Habitat of Striped Bass: A Speculative Hypothesis,  
 W85-06409 1812 2L

### DELAWARE UNIV., NEWARK, COLL. OF MARINE STUDIES.

Behaviour of Iron, Manganese, Phosphate and Humic Acid During Mixing in a Delaware Salt Marsh Creek,  
 W85-00290 1801 2L

Chemistry of Western Atlantic Precipitation at the Mid-Atlantic Coast and on Bermuda,  
 W85-00520 1802 2K

Observations of Wind-Induced, Subtidal Variability in the Delaware Estuary,  
 W85-03409 1807 2L

Wet Deposition of Trace Metals to the Western Atlantic Ocean at the Mid-Atlantic Coast and on Bermuda.  
 W85-04504 1809 5B

### DELAWARE UNIV., NEWARK, DEPT. OF AGRICULTURAL ENGINEERING.

Stormwater Management Alternatives - A Computer-Based Program for the Selection of Techniques to Mitigate the Impact of Urban Stormwater,  
 W85-06328 1812 2E

### DELAWARE UNIV., NEWARK, DEPT. OF CIVIL ENGINEERING.

Transport and Fate of Microorganisms in Porous Media: A Theoretical Investigation,  
 W85-01173 1803 5B

Flocculation Effects on Bound Water in Sludges as Measured by Nuclear Magnetic Resonance Spectroscopy,  
 W85-05049 1810 5D

Comparison of Activated Sludge Response to Quantitative, Hydraulic and Combined Shock for the Same Increases in Mass Loading,  
 W85-05278 1810 5D

Predictive Model for Treatment of Phenolic Wastes by Activated Sludge,  
 W85-05279 1810 5D

Response of Phenol-Acclimated Activated Sludge Process to Quantitative Shock Loading,  
 W85-05559 1810 5D

Selection of Growth Rate Model for Activated Sludges Treating Phenol,  
 W85-06735 1812 5D

Riprap Stability Under Wave Action,  
 W85-07079 1812 8B

### DELAWARE UNIV., NEWARK, DEPT. OF GEOLOGY.

Phosphorus Distribution in Sediments of the Delaware River Estuary,  
 W85-01843 1804 2L

Evaluation of Methods for Calculating the Concentration of Suspended Bed Material in Rivers,  
 W85-03162 1806 2J

Bank Sediment Type and Suspended-Sediment Transport in Sand-Bed Streams,  
 W85-06421 1812 2J

### DELAWARE UNIV., NEWARK, SCHOOL OF LIFE AND HEALTH SCIENCES.

Histopathology of Mercenaria mercenaria as an Indicator of Pollutant Stress,  
 W85-05899 1811 5C

### DELHI UNIV. (INDIA). ECOLOGY AND EXPERIMENTAL TAXONOMY LAB.

Physiography and Limnology of Three Lakes in the Environs of the Union Territory of Delhi, India,  
 W85-06012 1811 2H

### DELTA INST. FOR HYDROBIOLOGICAL RESEARCH, YERSEKE (NETHERLANDS).

Organochlorine Contamination of the Dutch Delta Region as 'Watched' by Mussels,  
 W85-00571 1802 5A

Influence of Varying Environmental Conditions on the Activity of Heterotrophic Bacteria,  
 W85-04700 1809 2H

### DELTA STATE UNIV., CLEVELAND, MS. CENTER FOR ALLUVIAL PLAINS STUDIES.

Effects of Heavy Metals on Water Hyacinths (Eichhornia crassipes (Mart.) Solms),  
 W85-00880 1802 5D

### DEMOCRITUS NUCLEAR RESEARCH CENTER, ATHENS (GREECE).

Isotope Hydrology Study of Molai Area in Laconia,  
 W85-05595 1810 2F

Planning Effective Industrial Liquid Waste Controls in Developing Nations,  
 W85-06287 1812 6A

### DEMOKRITOS UNIV. OF THRACE, XANTHI (GREECE). DEPT. OF CIVIL ENGINEERING.

Nomographic Estimation of Performance Parameters in Sprinkler Irrigation,  
 W85-03478 1807 3F

Optimal Intraseasonal Irrigation Water Distribution,  
 W85-04166 1808 3F

### DENVER WATER DEPT., CO.

Calibrating Water System Models,  
 W85-01904 1804 5F

Denver's Seven Decades of Experience with Chloramination,  
 W85-05473 1810 5F

### DEPARTMENT OF AGRICULTURE FOR NORTHERN IRELAND, COLERAINE.

FISHERIES RESEARCH LAB.

Structure and Chemistry of Sediments in Belfast Lough, A Semi-enclosed Marine Bay,  
 W85-00654 1802 5B

### DEPARTMENT OF AGRICULTURE, LETHBRIDGE (ALBERTA). IRRIGATION DIV.

Hydraulic Conductivity of a Glacial Till in Alberta,  
 W85-00302 1801 4B

**ORGANIZATIONAL INDEX**  
**DEPARTMENT OF FISHERIES AND OCEANS, WINNIPEG (MANITOBA). FRESHWATER**

Relationships between Saturated Hydraulic Conductivity and Some Physical and Chemical Properties, W85-00339	1801 2G	DEPARTMENT OF BOTANY, UNIVERSITY OF IBADAN, NIGERIA, AFRICA. Influence of Soil Drought and Partial Waterlogging on Water Relations of <i>Gmelina arborea</i> Seedlings, W85-06858	1812 2I	DEPARTMENT OF FISHERIES AND OCEANS, ST. JOHN'S (NEWFOUNDLAND). <b>BIOLOGICAL STATION.</b> Effects of Oil Hydrocarbons and Dispersants on Fish, W85-05588	1810 5C
<b>DEPARTMENT OF AGRICULTURE, LETHBRIDGE (ALBERTA). RESEARCH STATION.</b> Use of Tempe Cell, Modified to Restrain Swelling, for Determination of Hydraulic Conductivity and Soil Water Content, W85-00155	1801 2G	<b>DEPARTMENT OF ENERGY, NEW YORK. ENVIRONMENTAL MEASUREMENTS LAB.</b> Relationship of a Coal Fired Power Plant to the Levels of Polycyclic Aromatic Hydrocarbons (PAH) in the Sediment of Cayuga Lake, W85-05038	1810 5B	<b>DEPARTMENT OF FISHERIES AND OCEANS, STE. ANNE DE BELLEVUE (QUEBEC).</b> Benthic and Intertidal Organisms, W85-05589	1810 5C
Soil Salinity Status and its Relation to Some of the Soil and Land Properties of Three Irrigation Districts in Southern Alberta, W85-06151	1811 4A	Trace Element Concentrations in the Dorsal Muscle of White Suckers and Brown Bullheads from Two Acidic Adirondack Lakes, W85-06889	1812 5C	<b>DEPARTMENT OF FISHERIES AND OCEANS, VANCOUVER (BRITISH COLUMBIA). FIELD SERVICES BRANCH.</b> Recent Trophic Changes in Kootenay Lake, British Columbia, as Recorded by Fossil Diatoms, W85-00249	1801 2H
Irrigation of Forages with Rendering Plant Wastewater: Forage Yield and Nitrogen Dynamics, W85-06623	1812 5D	<b>DEPARTMENT OF ENERGY, PITTSBURGH, PA. PITTSBURGH ENERGY TECHNOLOGY CENTER.</b> Fate of Contaminants During Treatment of H-Coal Process Wastewaters, W85-04878	1809 5D	<b>DEPARTMENT OF FISHERIES AND OCEANS, VANCOUVER (BRITISH COLUMBIA). WEST VANCOUVER LAB.</b> Periphyton Biomass and Species Composition in 21 British Columbia Lakes: Seasonal Abundance and Response to Whole-Lake Nutrient Additions, W85-00954	1802 5G
<b>DEPARTMENT OF AGRICULTURE, OTTAWA (ONTARIO). CROP PRODUCTION DIV.</b> Monitoring Drought for Grazing Land Management, W85-01322	1803 4A	<b>DEPARTMENT OF ENERGY, WASHINGTON, DC. OFFICE OF HEALTH AND ENVIRONMENTAL RESEARCH.</b> Effects of Municipal Sewage Sludge-Cake on Nitrogen and Phosphorus Distributions in a Pine Plantation, W85-05387	1810 5E	Biological Availability of Metals to Marine Organisms, W85-04891	1809 5B
<b>DEPARTMENT OF AGRICULTURE, OTTAWA (ONTARIO). LAND RESOURCE RESEARCH INST.</b> Measurement of Soil Water Content Using a Portable TDR Hand Probe, W85-02801	1806 2G	<b>DEPARTMENT OF FISHERIES AND OCEANS, NANAIMO (BRITISH COLUMBIA). PACIFIC BIOLOGICAL STATION.</b> Logging Impacts and Some Mechanisms that Determine the Size of Spring and Summer Populations of Coho Salmon Fry ( <i>Oncorhynchus kisutch</i> ) in Carnation Creek, British Columbia, W85-01919	1804 5C	<b>DEPARTMENT OF FISHERIES AND OCEANS, WINNIPEG (MANITOBA). FRESHWATER INST.</b> Geochemical Pathways and Biological Uptake of Radium in Small Canadian Shield Lakes, W85-00153	1801 5B
Diffusion-Based Soil Water Simulation for Native Grassland, W85-03482	1807 2G	Responses of Sockeye Salmon ( <i>Oncorhynchus nerka</i> ) to Fertilization of British Columbia Coastal Lakes, W85-04847	1809 8I	Degradation of Niclosamide (2',5-Dichloro-4-nitrosalicylanilide) in Sediment and Water Systems, W85-00161	1801 5B
Estimated Soil Water Reserves Applicable to a Wheat-Fallow Rotation for Generalized Soil Areas Mapped in Southern Saskatchewan, W85-04355	1808 2G	<b>DEPARTMENT OF FISHERIES AND OCEANS, ST. ANDREWS (NEW BRUNSWICK).</b> Importance to Mussels of the Benthic Boundary Layer, W85-03600	1807 2H	Southern Indian Lake Impoundment and Churchill River Diversion, W85-00631	1802 6G
Measurement of Soil Water Content Using Time-Domain Reflectrometry (TDR): A Field Evaluation, W85-05180	1810 2G	Survival of Eggs and Alevins of Atlantic Salmon ( <i>Salmo salar</i> ) in Relation to the Chemistry of Interstitial Water in Redds in Some Acidic Streams of Atlantic Canada, W85-04845	1809 5C	Shoreline Erosion and Restabilization in the Southern Indian Lake Reservoir, W85-00632	1802 6G
Comparison of Modelled Soil Water Reserves on Canadian Prairie Soils with Water-Holding Capacities of 280 and 250 mm, W85-06152	1811 2G	Uptake of Cadmium by Eggs and Alevins of Atlantic Salmon ( <i>Salmo salar</i> ) as Influenced by Acidic Conditions, W85-05012	1810 5C	Comparison of Phosphorus Turnover Times in Northern Manitoba Reservoirs with Lakes of the Experimental Lakes Area, W85-00636	1802 2H
Water Stress Conditioning of Corn ( <i>Zea mays</i> ) in the Field and the Greenhouse, W85-07140	1812 2I	<b>DEPARTMENT OF FISHERIES AND OCEANS, ST. ANDREWS (NEW BRUNSWICK). BIOLOGICAL STATION.</b> Fertilization Success and Sperm Motility of Atlantic Salmon ( <i>Salmo salar</i> L.) in Acidified Water, W85-05712	1810 5C	Effects of Impoundment and Diversion on the Crustacean Plankton of Southern Indian Lake, W85-00637	1802 6G
<b>DEPARTMENT OF AGRICULTURE, POTCHEFSTROOM (SOUTH AFRICA).</b> Apple Root Distribution as Affected by Irrigation at Different Soil Water Levels on Two Soil Types, W85-06205	1812 3F	<b>DEPARTMENT OF FISHERIES AND OCEANS, ST. ANDREWS (NEW BRUNSWICK). FISHERIES RESEARCH BRANCH.</b> Increases in Fish Mercury Levels in Lakes Flooded by the Churchill River Diversion, Northern Manitoba, W85-00640	1802 5B		
<b>DEPARTMENT OF AGRICULTURE, SAINT-JEAN (QUEBEC). RESEARCH STATION.</b> Effect of Water Table Depth in Organic Soil on Subsidence and Swelling, W85-00156	1801 2G	Collapse of the Lake Whitefish ( <i>Coregonus clupeaformis</i> ) Fishery in Southern Indian Lake, Manitoba, following Lake Impoundment and River Diversion, W85-00641	1802 6G		
<b>DEPARTMENT OF AGRICULTURE, SWIFT CURRENT (SASKATCHEWAN). RESEARCH STATION.</b> Salinity and Alfalfa Yield under Effluent Irrigation in Southwestern Saskatchewan, W85-02802	1806 3C	Postimpoundment Winter Sedimentation and Survival of Lake Whitefish ( <i>Coregonus clupeaformis</i> ) Eggs in Southern Indian Lake, Manitoba, W85-00642	1802 6G		
<b>DEPARTMENT OF AGRICULTURE, TRURO (NOVA SCOTIA). ATLANTIC SOIL SURVEY UNIT.</b> Predicting Volumetric Water Retentions for Subsoil Materials from Colchester County, Nova Scotia, W85-06154	1811 2G				

## ORGANIZATIONAL INDEX

### DEPARTMENT OF FISHERIES AND OCEANS, WINNIPEG (MANITOBA). FRESHWATER

Response of a Boreal Northern Pike (*Esox lucius*) Population to Lake Impoundment: Wupaw Bay, Southern Indian Lake, Manitoba, W85-00643 1802 6G

Environmental Impact Prediction and Assessment: The Southern Indian Lake Experience, W85-00645 1802 6G

Tolerance and Resistance to Cadmium in White Suckers (*Catostomus commersoni*) Previously Exposed to Cadmium, Mercury, Zinc, or Selenium, W85-00886 1802 5C

Lack of Effect of Arsenic on Phytoplankton Communities in Different Nutrient Conditions, W85-00888 1802 5C

Fayetteville Green Lake, New York, U.S.A., VIII. Mass Balance for 137-Cs in Water, Varved and Non-varved Sediments, W85-01102 1802 5B

Degradation of Methoxychlor in Sediments under Various Redox Conditions, W85-01443 1803 5B

Metal Toxicity to Algae: A Highly pH Dependent Phenomenon, W85-01494 1803 5C

Dissolved and Suspended Mercury Species in the Wabigoon River (Ontario, Canada): Seasonal and Regional Variations, W85-02091 1804 5B

Mid-Summer Mixing Depths of Lakes of Different Latitudes, W85-02606 1805 2H

Electrolyte and Water Balance in Plasma and Urine of Rainbow Trout (*Salmo gairdneri*) during Chronic Exposure to Cadmium, W85-03603 1807 5C

Osmoregulatory and Hematological Responses of Rainbow Trout (*Salmo gairdneri*) to Extended Environmental Acidification, W85-03604 1807 5C

Four-Tank Recirculation System with a Hydrocyclone Prefilter and a Single Water Reconditioning Unit, W85-03637 1807 5D

Method for Measuring the Response of Sediment Microbial Communities to Environmental Perturbations, W85-04067 1808 2H

Fish Population Responses to Experimental Acidification of a Small Ontario Lake, W85-04205 1808 5C

Gas Chromatographic Determination of Pilocarpan in Fish, W85-04433 1809 5A

Responses of Lake Whitefish (*Coregonus clupeaformis*) to Fertilization of Lake 226, the Experimental Lakes Area, W85-04840 1809 8I

Gas Supersaturation as a Cause of Early Spring Mortality of Stocked Trout, W85-04844 1809 2H

Fate of Fenitrothion in Shaded and Unshaded Ponds, W85-06771 1812 5B

Bioaccumulation of Some Forestry Pesticides in Fish and Aquatic Plants, W85-06772 1812 5C

### DEPARTMENT OF FISHERIES AND OCEANS, WINNIPEG (MANITOBA). WESTERN REGION.

Effect of Impoundment and Diversion on the Sediment Budget and Nearshore Sedimentation of Southern Indian Lake, W85-00633 1802 6G

Thermal and Optical Characteristics of Southern Indian Lake before, during and after Impoundment and Churchill River Diversion, W85-00634 1802 6G

Primary Productivity of Southern Indian Lake before, during, and after Impoundment and Churchill River Diversion, W85-00635 1802 6G

### DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT, OTTAWA (ONTARIO).

Effects of Petroleum Hydrocarbons on Phytoplankton and Macrophytes, W85-05586 1810 5B

### DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT, OTTAWA (ONTARIO). MUNICIPAL SERVICES DIV.

Utilities Delivery for the Indian and Inuit Affairs Program, W85-04916 1809 6B

### DEPARTMENT OF PUBLIC WORKS, EUPEN (BELGIUM). WATER TREATMENT PLANT OF THE VESDRE.

Photoreduction of Iron in the Epilimnion of Acidic Lakes, W85-01588 1803 2H

### DEPARTMENT OF PUBLIC WORKS, LEEUWARDEN (NETHERLANDS).

Historical and Current Limnological Research in the Small River Linde, The Netherlands, W85-02503 1805 2H

Limnological Characteristics of Some Small Eutrophicated Late-Glacial Pools, W85-05652 1810 2H

### DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, LOWER HUTT (NEW ZEALAND). PHYSICS AND ENGINEERING LAB.

High Resolution Scanner Data for the Detection of Soil Moisture Variation, W85-01177 1803 2G

### DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, PALMERSTON NORTH (NEW ZEALAND). APPLIED BIOCHEMISTRY DIV.

Metal Accumulation by Bryophytes in Some Zinc-Rich Blanket Bogs, Selwyn Mountains, Yukon Territory, W85-00952 1802 2L

### DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, PALMERSTON NORTH (NEW ZEALAND). DIV. OF PLANT PHYSIOLOGY.

Evapotranspiration from Pasture: A Comparison of Lysimeter and Bowen Ratio Measurements with Priestley-Taylor Estimates, W85-06182 1812 2D

### DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, TAupo (NEW ZEALAND). DIV. OF MARINE AND FRESHWATER SCIENCES.

Effect of Vertical Mixing on the Phytoplankton of Lake Rotongao (July 1979 January 1981), W85-00805 1802 2H

Lake Eutrophication in New Zealand - a Comparison with other Countries of the Organisation for Economic Co-operation and Development, W85-00806 1802 2H

Aspects of the Limnology of Lake Rotongao, W85-00807 1802 2H

Inorganic Nitrogen Uptake in Oligotrophic Lake Taupo, New Zealand, W85-03307 1807 2K

Use of the Electronic Particle Counter to Investigate Phosphorus on Particles in Streams, W85-04061 1808 7B

Accelerated Eutrophication in a New Zealand Lake: Lake Rotoiti, Central North Island, W85-06794 1812 2H

### DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, TAupo (NEW ZEALAND). ECOLOGY DIV.

Acetylene Reduction and Nitrogen Fixation Potential in Some Eutrophic Lake Sediments, W85-03075 1806 2K

### DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, TAupo (NEW ZEALAND). GEOPHYSICS DIV.

Down Hole Flowmeter Analysis Using an Associated Caliper Log, W85-00340 1801 2F

### DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, TAupo (NEW ZEALAND). TAupo RESEARCH LAB.

Resistance to Mixing in New Zealand Lakes, W85-02507 1805 2H

### DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, WELLINGTON (NEW ZEALAND). APPLIED MATHEMATICS DIV.

Motion of Two Compressible Fluids with Interface in a Porous Reservoir, W85-02154 1804 2F

Interpretation of Downhole Data and Development of a Conceptual Model for the Redondo Creek Area of the Baca Geothermal Field, W85-03164 1806 6B

### DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, WELLINGTON (NEW ZEALAND). OCEANOGRAPHIC INST.

Water Temperature and Turbidity in Glacially Fed Lake Tekapo, W85-01637 1804 2H

Predominant Headwater Inflow and its Control of Lake-River Interactions in Lake Wakatipu, W85-01638 1804 2H

### DEPARTMENT OF THE ENVIRONMENT, HULL (QUEBEC).

Detection with the Aid of a Bioassay (*Selenastrum capricornutum*) of the Effects of a Mine Waste on the Aquatic Environment: Toxicity or Enrichment of Essential Substances (Détection à l'aide d'un bio-essai (*Selenastrum capricornutum*) des répercussions d'un rejet minier sur l'environnement aquatique: toxicité ou enrichissement en substance essentielle), W85-02480 1805 2H

### DEPARTMENT OF THE ENVIRONMENT, LONDON (ENGLAND).

Guidelines for the Utilisation of Sewage Sludge on Land in the United Kingdom, W85-04004 1808 5E

Cost Sharing in a Multipurpose Water Project, W85-04778 1809 6C

### DEPARTMENT OF THE ENVIRONMENT, MONCTON (NEW BRUNSWICK). WATER QUALITY BRANCH.

Trends in pH, Calcium, and Sulfate of Rivers in Atlantic Canada, W85-01589 1803 5C

## ORGANIZATIONAL INDEX

<b>DUKE UNIV., DURHAM, NC. DEPT. OF BOTANY.</b>					
<b>DREXEL UNIV., PHILADELPHIA, PA. DEPT. OF BIOLOGICAL SCIENCES.</b>					
Sludge Incineration and Precipitant Recovery, Vol. IV: Pilot Scale Multiple-Hearth Furnace Investigations, W85-06992	1812	5E	Frequency Distribution of Coliforms in Water Distribution Systems, W85-00106	1801	5F
DEPARTMENT OF THE ENVIRONMENT, OTTAWA (ONTARIO).			DREXEL UNIV., PHILADELPHIA, PA. DEPT. OF CIVIL ENGINEERING.		
Effects of Vertical Mixing on Photosynthetic Responses, W85-00931	1802	2H	Eigenvalue Technique for Solute Transport, W85-03004	1806	5B
DEPARTMENT OF THE ENVIRONMENT, VICTORIA (BRITISH COLUMBIA), INST. OF OCEAN SCIENCES.			Eigenvalue Solution Continuous in Time to the Spatially Discretized Solute Transport Equation in Steady Groundwater Flow, W85-03573	1807	5B
Water in America 1983, A Report by the Office of Water Policy, Department of the Interior, W85-00057	1801	6B	Estimating Mean Coliform Densities of Water Distribution Systems, W85-03628	1807	5A
DEPARTMENT OF THE INTERIOR, WASHINGTON, DC. OFFICE OF WATER POLICY.			DREXEL UNIV., PHILADELPHIA, PA. DEPT. OF ENVIRONMENTAL ENGINEERING.		
Water Supply in the Federal Republic of Germany, W85-02002	1804	6D	Oxidation of Cyanides in Industrial Wastewaters by Ozone, W85-04881	1809	5D
DEWBERRY AND DAVIS, FAIRFAX, VA.			DREXEL UNIV., PHILADELPHIA, PA. ENVIRONMENTAL STUDIES INST.		
Entrained and Bed-Load Sand Concentrations in Waves, W85-07080	1812	2J	Applying Analytical Techniques to Solve Groundwater Contamination Problems, W85-05478	1810	5G
DHV CONSULTING ENGINEERS, AMERSFOORT (NETHERLANDS).			Interactions between Dissolved Humic and Fulvic Acids and Pollutants in Aquatic Environments, W85-06768	1812	5B
Influence of Rainfall Characteristics on the Pollution Emission, W85-01697	1804	2E	DU PONT DE NEMOURS (E.I.) AND CO., WILMINGTON, DE.		
DICARA, SELIG AND HOLT, BOSTON, MA.			Carbon Treatment of Pesticide Wastewaters in Light of Best Available Technology Effluent Limitation Guidelines, W85-05267	1810	5D
Legal Means of Protecting Aquifers, W85-00699	1802	6E	Organics, Plastics, and Synthetics Industry Discharge: Performance and Regulations, W85-05769	1810	6E
DIPARTIMENTO DI BIOLOGIA AMBIENTALE, UNIV. DE SIENA, ITALY.			DUCKS UNLIMITED CANADA, WINNIPEG (MANITOBA).		
Trace-metals and Chlorinated Hydrocarbons in Birds' Eggs from the Delta of the Danube, W85-07146	1812	5B	Long-Term Wetland-Waterfowl Trends in Saskatchewan Grassland, W85-05734	1810	2H
DIRECCAO NACTIONAL DE AQ			DUKE POWER CO., HUNTERSVILLE, NC. ENVIRONMENTAL SERVICES SECTION.		
Objectives of a Water Quality Monitoring Programme for the International River Basins in a Developing Country in Southern Africa - Mozambique, W85-01391	1803	5A	Production of Five Genera of Chironomidae (Diptera) in Lake Norman, a North Carolina Reservoir, W85-01010	1802	5C
DIRECTORATE OF WATER AFFAIRS, JOHANNESBURG (SOUTH AFRICA).			Acute Toxicity of Hydrazine Hydrate to the Fathead Minnow ( <i>Pimephales promelas</i> ) and Daphnid ( <i>Daphnia pulex</i> ), W85-02969	1806	5C
Need for Chemical Phosphate Removal, W85-04821	1809	5D	DUKE UNIV., BEAUFORT, NC. MARINE LAB.		
DIREKTORATET FOR JAKT, VILSTØT OG FERSKVANNSFISKE, AAS (NORWAY).			Carbon and Nitrogen Primary Productivity in Three North Carolina Estuaries, W85-00665	1802	2L
Estimated Pollution Loadings from Norwegian Fish Farms. I. Investigations 1978-1979, W85-00114	1801	5B	Effects of Bottom Currents and Fish on Sedimentation in a Deep-water, Lacustrine Environment, W85-04309	1808	2J
DISPOSAL SAFETY, INC., WASHINGTON, DC.			Cadmium Accumulation by the Blue Crab, <i>Callinectes sapidus</i> : Involvement of Hemocyanin and Characterization of Cadmium-Binding Proteins, W85-05881	1811	5C
Weighting of Observed Heads for the Inverse Problem, W85-02689	1805	2F	DREXEL UNIV., PHILADELPHIA, PA. DEPT. OF BOTANY.		
Conceptual Model of Deep Unsaturated Zones with Negligible Recharge, W85-03561	1807	2G	Growth of Alpine Plants Under Controlled Drought, W85-00235	1801	2I
DISTRICT OF COLUMBIA UNIV., WASHINGTON, DEPT. OF BIOLOGY.					
Factors Affecting Trace Metal Accumulation by Estuarine Oyster <i>Crassostrea virginica</i> , W85-06878	1812	5A			

## ORGANIZATIONAL INDEX

### DUKE UNIV., DURHAM, NC. DEPT. OF BOTANY.

Effects of CO<sub>2</sub> Enrichment and Water Stress on Growth of Liquidambar styraciflua and Pinus taeda Seedlings, W85-03319 1807 2I

### DUKE UNIV., DURHAM, NC. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.

Integrated Methodology for Instream Flow Strategies, W85-01951 1804 5B

Technique for Estimating Sludge Compatability in Centrifugal Dewatering, W85-04286 1808 5D

### DUKE UNIV., DURHAM, NC. DEPT. OF MECHANICAL ENGINEERING AND MATERIALS SCIENCE

Bottom-Boundary Condition for Nonequilibrium Transport of Sediment, W85-02962 1806 2J

### DULWICH HOSPITAL, LONDON (ENGLAND).

Mycobacteria in Water, W85-03298 1807 5B

### DUNCAN, LAGNESE AND ASSOCIATES, INC., PITTSBURGH, PA.

Benzol Plant Wastewater Treatment in a Packed-Bed Reactor, W85-05271 1810 5D

Iron Oxidation in Industrial Waste Streams, W85-05289 1810 5D

### DUNDEE UNIV. (SCOTLAND). DEPT. OF BIOLOGICAL SCIENCES.

Uptake and Accumulation of Zinc in Juvenile Rainbow Trout, *Salmo gairdneri*, W85-01120 1803 5C

### DUNE WATER WORKS OF THE HAGUE (NETHERLANDS).

Vegetation Changes and Water Catchment in a Dutch Coastal Dune Area, W85-00124 1801 2L

### DUNN GEOSCIENCE CORP., CAMPHILL, PA.

Fly Ash Disposal in a Limestone Quarry, W85-0309 1801 5B

### DUNSTAFFNAGE MARINE RESEARCH LAB., OBAN (SCOTLAND).

Environmental and Biochemical Investigation of Some Effects of Organic Pollution in Inner Oslofjord, Norway, W85-01896 1804 5C

### DURATRON SYSTEMS LTD., SCARBOROUGH (ONTARIO).

Reining: The Feasibility of Inserting Pipe into Existing Sewers, W85-04693 1809 8A

### DURHAM UNIV. (ENGLAND).

MINES: A Model to Forecast Mine Wastewater Quality, W85-01750 1804 5B

### DURHAM UNIV. (ENGLAND). DEPT. OF BOTANY.

Aquatic Cryptograms of Natural Acid Springs Enriched with Heavy Metals: the Kootenay Paint Pots, British Columbia, W85-00402 1801 2H

Heavy Metals in Water, Sediments and Invertebrates from a Metal-Contaminated River Free of Organic Pollution, W85-00988 1802 5C

Water Chemistry and Phosphatase Activity of the Blue-Green Alga *Rivularia* in Upper Teesdale Streams, W85-02283 1805 2H

DVIRKA AND BARTILLUCCI, SYOSSET, NY. Leachate Disposal Alternatives in a Sole Source Aquifer Environment, W85-05373 1810 5E

### E.V.S. CONSULTANTS LTD., NORTH VANCOUVER (BRITISH COLUMBIA).

Lethal and Sublethal Tolerances of Aquatic Oligochaetes with Reference to Their Use as a Biotic Index of Pollution, W85-02773 1806 5C

Effects of Puget Sound Sediments and Their Elutriates on the Life Cycle of Capitella capitata, W85-02782 1806 5C

### EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC., MIDDLETOWN, NY.

Thermal Mortality Prediction Equations for Estrainable Striped Bass, W85-04682 1809 5C

### EARTH-FAX ENGINEERING, INC., MURRAY, UT.

Control of Ground Water Contamination at an Active Uranium Mill, W85-06833 1812 5G

### EAST ANGLIAN WATER CO., CAMBRIDGE (ENGLAND).

Experiences in the Use of East Anglian Sands and Gravels ('Crags') as a Source of Water Supply, W85-05517 1810 5F

### EAST BAY MUNICIPAL UTILITY DISTRICT, OAKLAND, CA.

Using Polymers with Direct Filtration, W85-06584 1812 5F

### EAST CAROLINA UNIV., GREENVILLE, NC. DEPT. OF BIOLOGY.

Application of Wastewater to Wetlands, W85-00079 1801 5D

Nutrient Assimilative Capacity of an Alluvial Floodplain Swamp, W85-04386 1808 2L

### EAST CAROLINA UNIV., GREENVILLE, NC. DEPT. OF CHEMISTRY.

Free Fluoride of the Pamlico River in North Carolina: A New Method to Localize the Discharge of Polluted Water into an Estuary, W85-03539 1807 5B

### EAST CHINA NORMAL UNIV., SHANGHAI. DEPT. OF CHEMISTRY.

Indirect Determination of Trace Phenol in Water by Atomic-Absorption Spectrophotometry, W85-06251 1812 5A

### EAST TENNESSEE STATE UNIV., JOHNSON CITY. DEPT. OF ENVIRONMENTAL HEALTH.

Model Code on Planning for and Allocations of Water to Public Water Systems, W85-06309 1812 6E

### EAST TENNESSEE STATE UNIV., JOHNSON CITY. DEPT. OF HEALTH SCIENCES.

Gross Alpha and Beta Radioactivities Associated with Aquatic Environments of Upper-East Tennessee Impacted by Industrial and Mining Activities, W85-04367 1808 5B

### EAST-WEST ENVIRONMENT AND POLICY INST., HONOLULU, HI.

Investigation of Acid Precipitation in Qinghai Province, China, W85-00247 1801 5B

Radiotracer Estimation of Microbial Biomass in Lake Sediment, W85-04848 1809 2H

Identification of Critical Areas on Forest Lands for Control of Nonpoint Sources of Pollution, W85-05068 1810 2J

### EAST WORCESTERSHIRE WATERWORKS CO., BROMSGROVE (ENGLAND).

Distribution Problems in Water Supply, W85-03320 1807 5F

EASTERN KENTUCKY UNIV., RICHMOND. Convenient Apparatus for Microbiological Sampling of River Waters, W85-04308 1808 7B

### EASTERN VIRGINIA MEDICAL SCHOOL, NORFOLK, VA. DEPT. OF PATHOLOGY.

Use of the Aurelia Metamorphosis Test System to Detect Subtle Effects of Selected Hydrocarbons and Petroleum Oil, W85-05890 1811 5C

### EASTERN WASHINGTON UNIV., CHENEY. DEPT. OF BIOLOGY.

Seasonal Distribution and Aggregation Behavior of Goldfish (*Carassius auratus* L.) in Eastern Washington Lakes: New Technology for Control of Goldfish Populations Based on Their Behavioral Ecology, W85-00610 1802 8I

Cause of Continued Hypolimnetic Anoxia in Long Lake, WA, Following Advanced Wastewater Treatment by the City of Spokane, W85-04317 1808 5C

EAU CLAIRE, WI. Organizing an Information Program for Non-point Pollution Control, W85-05954 1811 5G

### EBARA-INFILCO CO. LTD., FUJISAWA (JAPAN). RESEARCH CENTER.

Anaerobic Biological Decomposition of Malodorous Compounds in Kraft Pulping Wastewater, W85-07003 1812 5D

### ECO-RESEARCH LTD., POINTE CLAIRE (QUEBEC).

Evaluation of Ecological Forecasting Previous to the Hydroelectric Development of a Natural Subarctic Reservoir (Evaluation et Revision Ecologique Prealable a L'Aménagement Hydroelectrique D'un Reservoir Naturel Hemiarctique), W85-04575 1809 6G

### ECODYNE CORP., UNION, NJ. GRAVER WATER DIV.

New Method for Oil Tanker Ballast Water Deoiling, W85-05247 1810 5D

### ECOLE NATIONALE SUPERIEURE D'AGRONOMIQUE DE TOULOUSE (FRANCE). LAB. D'ICHTHYOLOGIE APPLIQUEE.

Model for Rapid Growth Evaluation in Fishes: the Case of the Cyprinids of Some Large French Rivers, W85-05717 1810 2H

### ECOLE NATIONALE SUPERIEURE D'ARTS ET METIERS, PARIS (FRANCE).

Study of a Water-Hammer Protection System in Line (Etude d'un Systeme Anti-Belier en Ligne), W85-03588 1807 8A

### ECOLE NATIONALE SUPERIEURE D'INGENIEURS ELECTRICIENS DE GRENOBLE, SAINT-MARTIN D'HERES (FRANCE). LAB. D'AUTOMATIQUE.

Predictive or Explanatory Models for Aquatic Ecosystems, W85-01429 1803 2H

## ORGANIZATIONAL INDEX

### EIDGENOESSISCHE ANSTALT FUER WASSERVERSORGUNG, ABWASSERREINIGUNG UND

<b>ECOLE NATIONALE SUPERIEURE D'INGENIEURS, TUNIS (TUNISIA).</b>				
From Infiltration to Recharge: Use of a Parametric Transfer Function,				
W85-03754	1807	2A		
<b>ECOLE NATIONALE SUPERIEURE DE CHIMIE DE RENNES (FRANCE). LAB. DE CHIMIE DES NUISANCES ET GENIE DE L'ENVIRONNEMENT.</b>				
Removal of Heavy Metals from Waters by Means of Natural Zeolites,				
W85-04297	1808	5F		
Use of Ozonation in Treatment of Sewage,				
W85-06213	1812	5D		
Ozonation Schemes of Organo Phosphorus Pesticides Application in Drinking Water Treatment,				
W85-06214	1812	5F		
<b>ECOLE NATIONALE SUPERIEURE DES MINES DE PARIS, FONTAINBLEAU (FRANCE). CENTRE D'INFORMATION GEOLOGIQUE.</b>				
Suggestion for a Coupled Model of Surface and Groundwater Simulation on a Watershed (Proposition d'un modèle couple pour la simulation conjointe des écoulements de surface et des écoulements souterrains sur un bassin hydrologique),				
W85-02354	1805	2A		
<b>ECOLE NORMALE SUPERIEURE, PARIS (FRANCE).</b>				
Comparative Study of Mercury Contamination in the Tagus Estuary (Portugal) and Major French Estuaries (Gironde, Loire, Rhone),				
W85-06854	1812	5B		
<b>ECOLE NORMALE SUPERIEURE, PARIS (FRANCE). LAB. DE GEOLOGIE.</b>				
Evolution of Algal and Detrital Components in the Particulate Organic Carbon of Three Rivers from the Bassin Parisien (Evolution du Carbone Organique Particulaire 'algal' et 'detritique' dans trois rivières du Bassin Parisien),				
W85-00630	1802	2H		
Carbon, Nitrogen, and Phosphorus Transport by World Rivers,				
W85-01299	1803	2K		
Primary Production and its Fate in the Storage Basin of Mery-sur-Oise,				
W85-05634	1810	2H		
Geographical Variability in the Natural Chemical Composition of Running Waters (Variabilité Géographique de la Composition Chimique Naturelle des eaux Courantes),				
W85-05657	1810	2K		
<b>ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (SWITZERLAND).</b>				
Hydraulic Modelling at the Piedra del Aguila Dam,				
W85-04781	1809	8B		
Effect of Local Bottom Slope and Roughness Coefficient Variations in Overland Flows,				
W85-06645	1812	2E		
<b>ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (SWITZERLAND). DEPT. DE GENIE CIVIL.</b>				
Reservoir Storage Equation Experimentally Verified,				
W85-04416	1809	2E		
<b>ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (SWITZERLAND). DEPT. DE GENIE RURAL ET GEOMETRIE.</b>				
Dams - For Whom and For What Purposes (Des Barrages - Pour Qui, Pour Quoi),				
W85-01263	1803	6A		
<b>ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (SWITZERLAND). INST. DE GENIE RURAL.</b>				
Hydrological Model for Small Agricultural Catchment Areas (Modélisation des Evenements Averses-Cues sur les Petits Bassins Versants),				
W85-01269	1803	2A		
<b>ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (SWITZERLAND). INST. DE TRAVAUX HYDRAULIQUES.</b>				
Simplified Hydrological Rainfall-Runoff Model,				
W85-03088	1806	2A		
<b>ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (SWITZERLAND). INST. DU GENIE DE L'ENVIRONNEMENT.</b>				
Problem of Acid Precipitation in Switzerland (Le Problème des Precipitations Acides en Suisse),				
W85-01266	1803	5C		
<b>ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (SWITZERLAND). LAB. D'HYDRAULIQUE.</b>				
Turbulent Boundary-Layer Flow Over Permeable and Non-Permeable Rough Surfaces (Couche Limite Turbulente Sur Des Surfaces Rugueuses Permeables Et Non Permeables),				
W85-01231	1803	2E		
<b>ECOLE POLYTECHNIQUE, MONTREAL (QUEBEC). SECTION DU GENIE DE L'ENVIRONNEMENT.</b>				
Effects of an in situ Artificial Acidification on the Lacustrine Phytoplankton and Zooplankton (Effets d'une Acidification Artificielle in situ sur le Phytoplankton et le Zooplankton Lacustre),				
W85-02636	1805	5C		
<b>ECOLOGICAL ANALYSTS, INC., SPARKS, MD.</b>				
Guide to Ground-Water Standards of the United States,				
W85-06940	1812	6E		
<b>ECOLOGICAL RESEARCH ASSOCIATES, DAVIS, CA.</b>				
Use of Artificial Wetlands to Remove Nitrogen Compounds from Wastewater,				
W85-01978	1804	5D		
<b>ECOLOGY AND ENVIRONMENT, INC., SEATTLE, WA.</b>				
Ground Water Contamination of Two Production Wells: A Case History,				
W85-00363	1801	5F		
<b>ECOLOGY AND ENVIRONMENT, INC., SHAWNEE MISSION, KS.</b>				
Utilization of Shallow Geophysical Sensing at Two Abandoned Municipal/Industrial Waste Landfill on the Missouri River Floodplain,				
W85-03175	1806	5A		
<b>ECONOMIC RESEARCH SERVICE, FORT COLLINS, CO. NATIONAL RESOURCE ECONOMICS DIV.</b>				
Treating Water Institutions as Endogenous Variables: Demonstration of a Conceptual Model,				
W85-06235	1812	6E		
<b>EDINBURGH UNIV. (SCOTLAND). DEPT. OF CHEMISTRY.</b>				
Mechanisms of Metal Adsorption from Aqueous Solutions by Waste Tyre Rubber,				
W85-01724	1804	5D		
<b>EDINBURGH UNIV. (SCOTLAND). DEPT. OF CIVIL ENGINEERING.</b>				
Flocculation and Turbulence from Bubble-Induced Mixing,				
W85-03021	1806	5F		
<b>EDINBURGH UNIV. (SCOTLAND). DEPT. OF GEOLOGY.</b>				
Manganese Chemistry in Rivers and Streams,				
W85-03213	1806	2K		
<b>EICHSFELDER ENERGIE- UND WASSERVERSORGUNGS G.M.B.H., DUDERSTADT (GERMANY, F.R.).</b>				
Integration of a Reverse Osmosis Installation in the Fully Automated Operation of a Rural Water Supply Company,				
W85-00253	1801	5F		
<b>EIDGENOESSISCHE ANSTALT FUER WASSERVERSORGUNG, ABWASSERREINIGUNG UND GEWAESSERSCHUTZ, DUEBENDORF (SWITZERLAND).</b>				
Modelling Concepts for Hydrophobic Organic Pollutants in Lakes,				
W85-00264	1801	5B		

## ORGANIZATIONAL INDEX

### EIDGENOESSISCHE ANSTALT FUER WASSERVERSORGUNG, ABWASSERREINIGUNG UND

Analysis of Quantitative Wastewater Measurements of a Country Restaurant Situated at Approximately 1080 m Altitude and of a Mountain Inn Situated at Approximately 1410 m Altitude (Auswertung von Schmutzwasser-Mengenmessungen bei einem Ausflugsrestaurant, rund 1080 m u. M. und bei einem Berggasthof, rund 1410 m u. M.), W85-01854	1804 5D	EIDGENOESSISCHE TECHNISCHE HOCHSCHULE, ZURICH (SWITZERLAND). GEOLOGISCHES INST.	
Singlet Oxygen in Surface Waters - Part I: Furfuryl Alcohol as a Trapping Agent, W85-01964	1804 2K	Ice Movement Through Smith Sound in Northern Baffin Bay, Canada, Observed in Satellite Imagery, W85-00672	1802 2C
Singlet Oxygen in Surface Waters - Part II: Quantum Yields of Its Production by Some Natural Humic Materials as a Function of Wavelength, W85-01965	1804 2K	EIDGENOESSISCHE TECHNISCHE HOCHSCHULE, ZURICH (SWITZERLAND). INST. FUER HYDROMECHANIK UND WASSERWIRTSCHAFT.	
Turbulent Mixing in the Hypolimnion of Baldegersee (Switzerland) Traced by Natural Radon-222, W85-02221	1805 2H	Towards a Better Definition of the Three Types of Sediment Transport (Pour Une Meilleure Definition Des Trois Types de Transport de Sédiments), W85-01227	1803 2J
Sorption of Chlorinated Phenols by Natural Sediments and Aquifer Materials, W85-02344	1805 5B	Investigation of Plunging Density Currents Generated by Inflows in Lakes, W85-02930	1806 2H
Improved Ammonia Oxidation by Ozone in the Presence of Bromide Ion During Water Treatment, W85-02430	1805 5A	EIDGENOESSISCHE TECHNISCHE HOCHSCHULE, ZURICH (SWITZERLAND). VERSUCHSANSTALT FUER WASSERBAU, HYDROLOGIE UND GLAZIOLOGIE.	
Full Scale Experience with Tertiary Contact Filtration, W85-03648	1807 5D	Surface Waters, an Exclusive Feature of Our Planet (Les Eaux de Surface, une Exclusivité de Notre Planète), W85-01230	1803 2A
Determination of Nitrilotriacetic Acid in Water by High Resolution Gas Chromatography, W85-03887	1808 5A	Features to Protect the Outlets of the Tiefencastel Power House from Gravel Deposition (Massnahmen zur Verhinderung der Geschiebeablagerungen in den Ausläufen der Zentrale Tiefencastel), W85-01267	1803 8B
Analytical Fractionation of Dissolved Organic Matter in Water Using On-Line Carbon Detection, W85-04298	1808 2K	Rainfall-Runoff Model for Small Basins (Ein Niederschlag/Abfluss-Modell für Kleine Einzugsgebiete), W85-01268	1803 2A
Kinetics and Products of the Reactions of Ozone with Various Forms of Chlorine and Bromine in Water, W85-05828	1810 5F	Large Spillways in Brazil - Three Impressions from the ICOLD-Congress in Rio de Janeiro (Hochwasserauslastungen brasilianischer Talsperren; drei Eindrücke vom ICOLD-Kongress 1982 in Rio de Janeiro), W85-01363	1803 8A
Groundwater Contamination by Volatile Halogenated Alkanes: Abiotic Formation of Volatile Sulfur Compounds under Anaerobic Conditions, W85-06148	1811 5B	Discharge Computation in Gravel Rivers (Abflubberechnung in kiesführenden Flüssen), W85-03267	1807 2E
EIDGENOESSISCHE ANSTALT FUER WASSERVERSORGUNG, ABWASSERREINIGUNG UND GEWAESSERSCHUTZ, DUEBENDORF (SWITZERLAND). INST. OF AQUATIC SCIENCES.		Bottom Aeration to Prevent Spillway Chutes from Cavitation Erosion (Sohlenbelüftung gegen Kavitationserosion in Schussrinnen), W85-03444	1807 8A
Does Settling Seston Release Soluble Reactive Phosphorus in the Hypolimnion of Lakes, W85-07071	1812 2H	Turbidity Currents in Lakes: Oxygen-Input by Underflowing River Water (Trübstrome in Seen: Sauerstoffeintrag Durch Grundnah Eingeschichtetes Flusswasser), W85-04073	1808 2H
EIDGENOESSISCHE TECHNISCHE HOCHSCHULE, ZURICH (SWITZERLAND). Current Meter Calibration and Three-Dimensional Displacement Effects, W85-00526	1802 7B	EIDGENOESSISCHES AMT FUER WASSERWIRTSCHAFT, BERN (SWITZERLAND).	
Gezhouba - Superpower Station on the Chang Jiang, W85-01273	1803 8A	Regular Examination of Dams; Handling and Operation Control of Gates (Contrôles périodiques de l'état des Barrages; Manoeuvre et Essai de Fonctionnement des Organes Mobiles), W85-01272	1803 8C
Tucuruí, Gigantic Hydro Power Plant in Brazil (Tucuruí: Gigantische Wasserkraftanlage im Amazonas-Urwald), W85-01362	1803 8A	EKOFINN OY A.B., LAHTI (FINLAND). Package Waste Water Treatment Plants, W85-05209	1810 5D
EL PASO, TX. Putting Wastewater to Work, W85-06816		EKONO OY, HELSINKI (FINLAND). Forest Industry Anaerobic Wastewater Treatment and its Future Development, W85-07019	1812 5D
Remarks on the Structure of Zooplanktonic Populations in the Sewage Discharge Zone of Marseille-Cortiou (Remarques sur la Structuration des Populations Zooplanctoniques dans la Zone de l'Emissaire de Marseille-Cortiou), W85-02537		EL PASO, TX. Putting Wastewater to Work, W85-06816	1812 3D
ENERGY ENGINEERING INTERNATIONAL, MUNICH (GERMANY, F.R.). Pumped Storage for the German Railway, W85-02675	1805 8A		

**ORGANIZATIONAL INDEX**  
**ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. OFFICE OF PESTICIDES**

<b>ENERSOL CONSULTING ENGINEERS, GLEBE (AUSTRALIA).</b> Solar Desalination Using the Vacuum Freezing Ejector Absorption (VFEA) Process, W85-01222	1803 3A	<b>ENVIRONMENTAL MONITORING AND SUPPORT LAB.-CINCINNATI, OH. VIROLOGY SECTION.</b> Use of Bituminous Coal as an Alternative Tech- nique for Field Concentration of Waterborne Viruses, W85-07129	1812 5A	<b>ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OH. HAZARDOUS WASTE ENGINEERING RESEARCH LAB.</b> Treatment of Dye and Pigment Processing Wastewater by the Activated Sludge Process, W85-05284	1810 5D
<b>ENGINEERING-SCIENCE, INC., ARCADIA, CA.</b> BOD Removal Efficiencies in Two Stabilization Lagoons in Series in Malaysia, W85-04515	1809 5D	<b>ENVIRONMENTAL MONITORING SYSTEMS LAB., RESEARCH TRIANGLE PARK, NC.</b> Spatial Analysis of Acid Precipitation Data, W85-01040	1802 5B	<b>ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OH. TOXICOLOGY AND MICROBIOLOGY DIV.</b> Epidemiology Study of the Use of Asbestos- Cement Pipe for the Distribution of Drinking Water in Escambia County, Florida, W85-02709	1806 5C
<b>ENGINEERING-SCIENCE, INC., ATLANTA, GA.</b> Munitions Manufacturing Wastewater Treatment: A Grass-Roots Facility Case History, W85-05248	1810 5D	<b>ENVIRONMENTAL PROFESSIONALS, METAIRIE, LA.</b> Managing Water Resources in the New Orleans Area, W85-02581	1805 4A	<b>ENVIRONMENTAL PROTECTION AGENCY, DENVER, CO. REGION VIII.</b> Causes of a Waterborne Giardiasis Outbreak, W85-04830	1809 5F
<b>ENSO-GUTZEIT OY, IMATRA (FINLAND). RESEARCH CENTRE.</b> Role of Facultative Anaerobic Micro-organisms in Anaerobic Biodegradation of Chlorophenols, W85-07022	1812 5D	<b>ENVIRONMENTAL PROTECTION AGENCY, ATHENS, GA.</b> Foliar Washoff of Pesticides (FWOP) Model: Development and Evaluation, W85-01441	1803 5B	<b>ENVIRONMENTAL PROTECTION AGENCY, ENVIRONMENTAL MONITORING AND SUPPORT LAB., CINCINNATI, OH.</b> Determination of Halogenated Chemicals in Water by the Purge and Trap Method, Method 502.1, W85-06915	1812 5A
<b>ENVIRONCHEM, ORELIA (AUSTRALIA).</b> Cadmium and Other Heavy Metal Concentra- tions in Selected Biota from Cockburn Sound, Western Australia, W85-00781	1802 5A	<b>ENVIRONMENTAL PROTECTION AGENCY, CHICAGO, IL. GREAT LAKES NATIONAL PROGRAM OFFICE.</b> Contaminant Analysis of Fillets from Great Lakes Coho Salmon, 1980, W85-01358	1803 5A	<b>ENVIRONMENTAL PROTECTION AGENCY, GULF BREEZE, FL. GULF BREEZE ENVIRONMENTAL RESEARCH LAB.</b> Effect of Chronic Exposure to EPN and to Guthion on the Critical Swimming Speed and Brain Acetylcholinesterase Activity of Cyprinodon variegatus, W85-02379	1805 5C
<b>ENVIRONMENTAL AND CHEMICAL SCIENCES, INC., AIKEN, SC.</b> Stressed Stream Ecosystem: Macroinvertebrate Community Integrity and Microbial Trophic Response, W85-00415	1801 5C	<b>ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OH.</b> Oil Shale - Potential Environmental Impacts and Control Technologies, W85-00285	1801 5C	<b>ENVIRONMENTAL PROTECTION AGENCY, NARRAGANSETT, RI.</b> Turbidity in the Western Basin of Lake Erie, W85-00512	1802 5B
Nutritive Quality and Size Fractions of Natural Seston in an Impounded River, W85-02897	1806 2H	<b>ENVIRONMENTAL PROTECTION AGENCY, WATER SUPPLY AND USE DIVISION.</b> Groundwater Supply Survey, W85-00702	1802 5F	<b>ENVIRONMENTAL PROTECTION AGENCY, SAN FRANCISCO, CA. REGION IX.</b> Water Quality Modelling and Water Resources Planning, W85-01426	1803 6A
<b>ENVIRONMENTAL AND SOCIAL SYSTEMS ANALYSTS LTD., VANCOUVER (BRITISH COLUMBIA).</b> Changes in the Temporal Behavior and Size Structure of Plankton Systems in Acid Lakes, W85-04199	1808 5C	<b>ENVIRONMENTAL PROTECTION AGENCY, WATER SUPPLY AND USE DIVISION.</b> Organic Halogen Measurements: Current Uses and Future Prospects, W85-06494	1812 5A	<b>ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. CRITERIA AND STANDARDS DIV.</b> Introduction: Evaluating the Benefits and Poten- tial Risks of Disinfectants in Drinking Water Treatment, W85-01197	1803 5F
<b>ENVIRONMENTAL COALITION OF BROWARD COUNTY, INC., FORT LAUDERDALE, FL.</b> Handbook on the Biscayne Aquifer Water Man- agement, Water Conservation Health and Cost of Drinking Water. W85-06906	1812 6D	<b>ENVIRONMENTAL PROTECTION AGENCY, WATER SUPPLY AND USE DIVISION.</b> Pilot-Plant Studies of Slow-Rate Filtration, W85-04408	1808 5F	<b>ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. NONPOINT SOURCES BRANCH.</b> Nonpoint Sources of Water Pollution, W85-05940	1811 5B
<b>ENVIRONMENTAL HEALTH DIRECTORATE, OTTAWA (ONTARIO).</b> Problems in Collection of Representative Sam- ples for Determination of Tributoxyethyl Phos- phate in Potable Water, W85-00164	1801 5A	<b>ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. OFFICE OF DRINKING WATER.</b> Engineering and Operating Approaches for Controlling Asbestos Fibers in Drinking Water, W85-02714	1806 5F	<b>ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. OFFICE OF PESTICIDE PROGRAMS.</b> Development of Revised Primary Drinking Water Regulations, W85-03625	1807 5F
Asbestos in Drinking Water: A Canadian View, W85-02715	1806 5A	<b>ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. OFFICE OF PESTICIDES AND TOXIC SUBSTANCES.</b> New Medium for the Enumeration and Subcul- ture of Bacteria from Potable Water, W85-04255	1808 5A	<b>ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. OFFICE OF PESTICIDES AND TOXIC SUBSTANCES.</b> Potential Pesticide Contamination of Ground- water from Agricultural Uses, W85-06784	1812 5B
Recovery of Hexachlorocyclohexane Isomers in Fortified Water Samples, W85-06601	1812 5A	Evaluating Sedimentation and Various Filter Media for Removal of Giardia Cysts, W85-04832	1809 5F	<b>ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. OFFICE OF PESTICIDES AND TOXIC SUBSTANCES.</b> Toxicity, Uptake, and Elimination of the Herbicides Alachlor and Dineoseb in Freshwater Fish, W85-01296	1803 5C
<b>ENVIRONMENTAL MANAGEMENT SUPPORT, SILVER SPRING, MD.</b> Dinosaur National Monument: The Evolution of a Federal Reserved Water Right, W85-06248	1812 6E	Bacterial Colonization of Point-of-Use Water Treatment Devices, W85-04834	1809 5F	Relative Source Contributions of Diet and Air to Ingested Asbestos Exposure, W85-02711	1806 5B
<b>ENVIRONMENTAL MONITORING AND SUPPORT LAB.-CINCINNATI, OH.</b> Reduction in Toxicity of Organic Priority Pol- lutants by Pilot-Scale Conventional Wastewater Treatment Process, W85-02201	1805 5D	<b>ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OH. ENVIRONMENTAL CRITERIA AND ASSESSMENT OFFICE.</b> Comparing Epidemiologic Studies of Ingested Asbestos for Use in Risk Assessment, W85-02710	1806 5C		
Handbook for Sampling and Sample Preserva- tion of Water and Wastewater. W85-06919	1812 5A				

## ORGANIZATIONAL INDEX

### ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. OFFICE OF PESTICIDES

Inexpensive Weir and Proportional Sampler for Miniature Watershed Ecosystems, W85-02990	1806 7B	Decommissioning of Mercury Cell Chlor-Alkali Plants in Canada, W85-04939	1809 5B	<b>ENVIRONMENTAL RESEARCH LAB.- DULUTH, MN.</b>
<b>ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. OFFICE OF RESEARCH AND DEVELOPMENT.</b>		Status Report on Abatement of Water Pollution from the Canadian Petroleum Refining Industry - 1980, W85-04940	1809 5D	Influence of pH, Dissolved Oxygen, Suspended Solids or Dissolved Solids upon Ventilatory and Cough Frequencies in the Bluegill <i>Lepomis macrochirus</i> and Brook Trout <i>Salvelinus fontinalis</i> , W85-00683
Utilization of Municipal Wastewater and Sludge on Land, W85-00679	1802 5E	Chlorophenols and Their Impurities in the Canadian Environment: 1983 Supplement, W85-04941	1809 5B	1802 5C
Personal Exposure to Volatile Organic Compounds; I. Direct Measurements in Breathing-Zone Air, Drinking Water, Food, and Exhaled Breath, W85-03041	1806 5A	Ethylbenzene, Environmental and Technical Information for Problem Spills, W85-05126	1810 5D	Tetrachloro-9H-Carbazole, a Previously Unrecognized Contaminant in Sediments of the Buffalo River, W85-00927
<b>ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. OFFICE OF TOXIC SUBSTANCES.</b>		Environmental Contaminants Act: Hazard Assessment Report on Cadmium, W85-05302	1810 5C	1802 5C
Environmental Fate and Toxicity in Wastewater Treatment of Quaternary Ammonium Surfactants, W85-02424	1805 5B	Pilot Scale Investigation of Computerized Control of the Activated Sludge Process, W85-05333	1810 5D	Toxicity of Fenitrothion to Fathead Minnows ( <i>Pimephales promelas</i> ) and Alternative Exposure Duration Studies with Fenitrothion and Endosulfan, W85-02421
<b>ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. OFFICE OF WATER REGULATIONS AND STANDARDS.</b>		Toluene, Environmental and Technical Information for Problem Spills, W85-05336	1810 5E	1805 5C
Removal Pathways and Fate of Organic Priority Pollutants in Treatment Systems: Chemical Considerations, W85-05294	1810 5D	Oil and Dispersants in Canadian Seas: Research Appraisal and Recommendations, W85-05583	1810 5B	Toxicity of Flucythrinate to Gammarus lacustris (Amphipoda), <i>Pteronarcys dorsata</i> (Plecoptera) and <i>Brachycentrus americanus</i> (Trichoptera): Importance of Exposure Duration, W85-02750
<b>ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC. WASTELOAD ALLOCATION SECTION.</b>		Sulphuric Acid and Oleum, Environmental and Technical Information for Problem Spills, W85-06355	1812 5D	1806 5C
Method for Establishing Site-Specific Stream Design Flows for Wasteload Allocations, W85-03336	1807 5D	Sulphur, Environmental and Technical Information for Problem Spills, W85-06356	1812 5D	Acute Toxicity of Selected Substituted Phenols, Benzenes and Benzoic Acid Esters to Fathead Minnows <i>Pimephales promelas</i> , W85-02751
<b>ENVIRONMENTAL PROTECTION SERVICE, BURLINGTON (ONTARIO). WASTE WATER TECHNOLOGY CENTRE.</b>		Benzene, Environmental and Technical Information for Problem Spills, W85-06357	1812 5D	1806 5C
Anaerobic Treatment of Thermal Sludge Conditioning Liquor with Fixed-Film and Suspended-Growth Processes, W85-05287	1810 5D	Oil Spill Barriers and Their Use, W85-06972	1812 5G	Toxicity of Ammonia to Early Life Stages of the Green Sunfish <i>Lipomis cyanellus</i> , W85-03045
<b>ENVIRONMENTAL PROTECTION SERVICE, EDMONTON (ALBERTA).</b>		<b>ENVIRONMENTAL PROTECTION SERVICE, OTTAWA (ONTARIO). ENVIRONMENTAL PROTECTION PROGRAMS DIRECTORATE.</b>		1806 5C
Water Conservation in the Northwest Territories - Public Education and Awareness Program, W85-04920	1809 3D	Manual for Land Application of Treated Municipal Wastewater and Sludge, W85-04213	1808 5D	<b>ENVIRONMENTAL RESEARCH LAB.- DULUTH, MONTICELLO, MN.</b>
<b>ENVIRONMENTAL PROTECTION SERVICE, HALIFAX (NOVA SCOTIA).</b>		Calcium Oxide and Hydroxide: Environmental and Technical Information for Problem Spills, W85-06935	1812 5A	<b>MONTICELLO ECOLOGICAL RESEARCH STATION.</b>
Zooplankton, W85-05587	1810 5C	<b>ENVIRONMENTAL RESEARCH CENTER, RESEARCH TRIANGLE PARK, NC.</b>		Structure and Function of Copper-Stressed Aquatic Microcosms, W85-02378
<b>ENVIRONMENTAL PROTECTION SERVICE, OTTAWA (ONTARIO).</b>		Recovery of Spent Sulfuric Acid from Steel Pickling Operations, W85-04933	1809 5E	1805 5C
Guidelines on the Use and Acceptability of Oil Spill Dispersants, 2nd Edition, W85-04194	1808 5B	<b>ENVIRONMENTAL RESEARCH INST. OF MICHIGAN, ANN ARBOR.</b>		Toxicity of Endrin and Malathion Mixtures to Flagfish ( <i>Jordanella floridae</i> ), W85-07156
Feasibility of Recirculating Bottom Ash Transport Water in Coal-Fueled Power Generating Stations, W85-04197	1808 5D	Versatile Directional Reflectance Model for Natural Water Bodies, Submerged Objects, and Moist Beach Sands, W85-03303	1807 7B	1812 5C
Ammonium Phosphates, Environmental and Technical Information for Problem Spills, W85-04231	1808 5C	<b>ENVIRONMENTAL RESEARCH LAB., ATHENS, GA.</b>		<b>ENVIRONMENTAL RESEARCH LAB., GULF BREEZE, FL.</b>
State-of-the-Art of the Pulp and Paper Industry and Its Environment Protection Practices, W85-04232	1808 5D	Organic Pollutant Sorption in Aquatic Systems, W85-00726	1802 5B	Adaptation of Natural Microbial Communities to Degradation of Xenobiotic Compounds: Effects of Concentration, Exposure Time, Inoculum, and Chemical Structure, W85-00102
Proceedings of the Third Symposium on Utilities Delivery in Cold Regions, W85-04237	1808 5E	Fate of Chemicals in Aquatic Systems: Process Models and Computer Codes, W85-06765	1812 5B	1801 5B
Basic Technology of the Pulp and Paper Industry and Its Environmental Protection Practices, W85-04932	1809 5D	<b>ENVIRONMENTAL RESEARCH LAB.- DULUTH, GROSSE ILE, MI. LARGE LAKES RESEARCH STATION.</b>		Acute Toxicity, Bioconcentration, and Persistence of AC 222,705, Benthiocarb, Chlorpyrifos, Fenvalerate, Methyl Parathion, and Permethrin in the Estuarine Environment, W85-00163
Intercomparisons of Analytical Methodology and Laboratory Capabilities Between Soviet and American Laboratories - 1973 and 1977, W85-02887	1806 5A			1801 5C
				Responses of Developing Estuarine Macrofauna Communities to Drilling Muds, W85-01845
				Dietary Accumulation of PCBs from a Contaminated Sediment Source by a Demersal Fish ( <i>Leiostomus xanthurus</i> ), W85-03690
				1807 5B
				Effects of Fenvalerate on Larval Development of <i>Palaemonetes pugio</i> ( <i>Holothius</i> ) and on Larval Metabolism during Osmotic Stress, W85-03691
				1807 5C
				Effects of Carcinogens, Mutagens, and Teratogens on Non-Human Species (Aquatic Animals), W85-04230
				1808 5C
				Final Report on Effect of Fenthion on Selected Estuarine Species Related to Field Study, W85-05124
				1810 5C
				Effects of Carcinogens, Mutagens, and Teratogens on Nonhuman Species (Aquatic Animals), W85-05128
				1810 5C

## ORGANIZATIONAL INDEX

**FICHTNER, BERATENDE INGENIEURE FUER ENERGIE- UND WAERMEWIRTSCHAFT**

Dietary Accumulation of PCBs from a Contaminated Sediment Source by a Demersal Fish Species ( <i>Leiostomus xanthurus</i> ), W85-05600	1810 5C	ESSEN UNIV. (GESAMTHOCHSCHULE) (GERMANY, F.R.) FACHBEREICH 9 - GEOLOGIE.	Influence of Redox Potential and pH on the Heavy Metal Content of Ground Water in the Heisinger Aue Area, West Germany (Der Einfluss von Redoxpotential und pH auf die Schwermetallgehalte des Grundwassers der Heisinger Aue (Ruhrtal Sudlich Essen)), W85-05450	1810 5B	EVERGLADES NATIONAL PARK, HOMESTEAD, FL, SOUTH FLORIDA RESEARCH CENTER.	Historical Changes in the Conductivity and Ionic Characteristics of the Source Water for the Shark River Slough, Everglades National Park, Florida, U.S.A., W85-01483	1803 6G
Determination of Fenithion Residues in Samples of Marine Biota and Seawater from Laboratory Exposures and Field Applications, W85-06581	1812 5A	ESSEN UNIV. (GESAMTHOCHSCHULE) (GERMANY, F.R.) FACHBEREICH CHEMIE.	Influence of Redox Potential and pH on the Heavy Metal Content of Ground Water in the Heisinger Aue Area, West Germany (Der Einfluss von Redoxpotential und pH auf die Schwermetallgehalte des Grundwassers der Heisinger Aue (Ruhrtal Sudlich Essen)), W85-05450	1810 5B	EXCEL INDUSTRIES LTD., BOMBAY (INDIA).	Removal of Phenol Using Water Hyacinth in a Continuous Unit, W85-05449	1810 5D
ENVIRONMENTAL RESEARCH LAB., NARRAGANSETT, RI.		ESSEN UNIV. (GESAMTHOCHSCHULE) (GERMANY, F.R.) FACHBEREICH CHEMIE.	Significance of Solvation Phenomena for the Partition of Halogenated Organic Compounds Between Water and a Paraffinic Phase (Die Bedeutung der Solvatisierung für die Verteilung von Halogenorganischen Verbindungen Zwischen Wasser und Einer Paraffinphase), W85-07024	1812 2K	EXETER UNIV. (ENGLAND). DEPT. OF CHEMICAL ENGINEERING.	Effects of Biological Films on BOD Decay Rates in Rivers, W85-01436	1803 5B
Nickel Uptake and Loss in the Bivalves <i>Crassostrea virginica</i> and <i>Mytilus edulis</i> , W85-02212	1805 5A	ESSEN UNIV. (GESAMTHOCHSCHULE) (GERMANY, F.R.) INST. FUER TECHNISCHE CHEMIE.	Hyperfiltration of Surfactants Containing Solutions From the Plating Industry, W85-01223	1803 5D	EXXON RESEARCH AND ENGINEERING CO., ANNANDALE, NJ. CORPORATE RESEARCH LABS.	Role of Benthic Films in the Oxygen Balance in an East Devon River, W85-02426	1805 5C
ENVIRONMENTAL SCIENCE AND ENGINEERING, INC., GAINESVILLE, FL.		ESSEX UNIV., COLCHESTER (ENGLAND). DEPT. OF BIOLOGY.	Macro-Invertebrate Populations and Production on a Salt-Marsh in East England Dominated by <i>Spartina anglica</i> , W85-05703	1810 2L	EXXON RESEARCH AND ENGINEERING CO., FLORHAM PARK, NJ.	Fate of Chlorine and Chloramines in Cooling Towers; Henry's Law Constants for Flashoff, W85-02915	1806 5B
Electrical Resistivity Investigation of Potential Cavities Underlying a Proposed Ash Disposal Area, W85-02861	1806 5G	ESSO AUSTRALIA LTD., SYDNEY. EXPLORATION DEPT.	Structure and Dynamics of Zooplankton Communities, Alligator Rivers Region, N.T., Australia, W85-02405	1805 2H	FACULTIES UNIVERSITAIRES NOTRE-DAME DE LA PAIX, NAMUR (BELGIUM). LAB. OF ANALYTICAL CHEMISTRY AND MASS SPECTROMETRY.	Pond Sediments as Historical Record of Heavy Metals Fallout, W85-00548	1810 5D
Acute and Chronic Toxicity of Atrazine to Estuarine Fauna, W85-06413	1812 5C	ESSO AUSTRALIA LTD., SYDNEY. EXPLORATION DEPT.	Mineral-Groundwater Interactions and the Formation of Authigenic Kaolinite within the Southeastern Intake Beds of the Great Australian (Artesian) Basin, New South Wales, Australia, W85-01051	1802 2K	FAIRFAX COUNTY WATER AUTHORITY, MERRIFIELD, VA.	Stable Lead Isotopes in Pond Sediments as Tracer of Past and Present Atmospheric Lead Pollution in Belgium, W85-03596	1807 5B
ENVIRONMENTAL SERVICES INTERNATIONAL, DENVER, CO.		ESWE-INST. FUER WASSERFORSCHUNG UND WASSERTECHNOLOGIE G.M.B.H., WEISBADEN (GERMANY, F.R.).	Stripping Test for Estimation of the Removal of Organic Substances by Aeration (Stripperkoeffizient zur Abschätzung der Entfernbarekeit Organischer Substanzen aus dem Wasser durch Belüften), W85-03593	1807 5A	FEDERAL EMERGENCY MANAGEMENT AGENCY, BOSTON, MA.	Pond Sediments as Historical Record of Heavy Metals Fallout, W85-00548	1802 5B
Lysimeters Allow Quicker Monitoring of Heap Leaching and Tailing Sites, W85-06838	1812 5G	EOTOVOS LORAND UNIV., BUDAPEST (HUNGARY). DEPT. OF ATOMIC PHYSICS.	New Electronic Evaporation and Rain Measuring Equipment, W85-01062	1802 7B	FEDERAL HIGHWAY ADMINISTRATION, WASHINGTON, DC.	Peak Use Charge: An Equitable Approach to Charging for and/or Reducing Summer Peak Use, W85-04687	1809 6C
ENVIOTECH CORP., SALT LAKE CITY, UT. EIMCO PROCESS MACHINERY DIV.		ETH/SIA, LOCARNO (SWITZERLAND).	Repair Works at the Concrete Dam 'Schoni' of the 'Oberalp' Hydroelectric Plant (Reparaturarbeiten an der Staumauer Schoni des Kraftwerk Oberalp), W85-01261	1803 8F	FEDERAL UNIV. OF TECHNOLOGY, BAUCHI (NIGERIA). DEPT. OF BIOLOGICAL SCIENCES.	Review of the Federal Emergency Management Agency's Dam Safety Programs, W85-04019	1808 6E
Enhanced Primary Treatment of Pulping Wastewaters, W85-05403	1810 5D	EUROCONSULT, ARNHEM (NETHERLANDS).	Furrow Irrigation Design for Vertisols, W85-06280	1812 3F	FEDERAL HIGHWAY ADMINISTRATION, WASHINGTON, DC.	Wetland and Floodplain Protection and the Federal-Aid Highway Program, W85-00911	1802 6E
EPM-MIDWEST, INC., COLUMBUS, OH.		EUROPEAN CENTRE FOR MEDIUM RANGE WEATHER FORECASTS, READING (ENGLAND).	Numerical Prediction of the Heavy Rainfall Vortex over Eastern Asia Monsoon Region, W85-04022	1808 2B	FICHTNER, BERATENDE INGENIEURE FUER ENERGIE- UND WAERMEWIRTSCHAFT G.M.B.H. UND CO. K.G., STUTTGART (GERMANY, F.R.).	Effects of Dyestuff Effluents on Nigeria Macro-Benthic Invertebrates Hippopera nigriæ, W85-01457	1803 5C
Case History of Industrial Pretreatment in Columbus, Ohio, W85-03331	1807 5D	EVEREST CONSULTING ASSOCIATES, INC., PRINCETON JUNCTION, NJ.	Review of the Food and Drug Administration Risk Analysis for Polychlorinated Biphenyls in Fish, W85-04775	1809 5C	Basic Considerations Influencing the Choice of Materials for Thermal Seawater Desalination Plants, W85-01224	1803 3A	
Determination of Trialkyltin, Dialkyltin, and Triphenyltin Compounds in Environmental Water and Sediments, W85-04340	1808 5A	ESPEY, HUSTON AND ASSOCIATES, INC., AUSTIN, TX.	Marsh Enhancement by Freshwater Diversion, W85-04240	1808 2L			
ERNST-MORITZ-ARNDT UNIV., GREIFSWALD (GERMAN D.R.).		More Economical Treatment of Chromium-Bearing Wastes, W85-05244	Review of the Food and Drug Administration Risk Analysis for Polychlorinated Biphenyls in Fish, W85-04775	1810 5D			
Hydrobiology of Strelasund (Zur Hydrobiologie des Strelasund), W85-05616	1810 2L						

## ORGANIZATIONAL INDEX

### FINNISH CENTRE FOR RADIATION AND NUCLEAR SAFETY, HELSINKI.

#### FINNISH CENTRE FOR RADIATION AND NUCLEAR SAFETY, HELSINKI.

Transport of Airborne 90Sr and 137Cs Deposited in the Basins of the Five Largest Rivers in Finland,  
W85-03678 1807 5B

#### FINNISH FOREST RESEARCH INST., HELSINKI. DEPT. OF PEATLAND FORESTRY.

Ecological Variation of Mire Site Types in the Small Kettle-Hole Mire Heinisuo, Southern Finland,  
W85-02485 1805 2L

#### FISH AND WILDLIFE SERVICE, BOWLING GREEN, KY. EAST CENTRAL RESERVOIR INVESTIGATIONS.

Seasonal and Spatial Distribution of Zooplankton in a Flood Control Reservoir and Tailwater,  
W85-06984 1812 6G

#### FISH AND WILDLIFE SERVICE, CLEMSON, SC. SOUTHEAST RESERVOIR INVESTIGATIONS.

Role of Fish Distribution on Estimates of Standing Crop in a Cooling Reservoir,  
W85-02374 1805 5C

#### FISH AND WILDLIFE SERVICE, COLUMBIA, MO.

National Contaminant Biomonitoring Program: Concentrations of Seven Elements in Freshwater Fish, 1978-1981,  
W85-07161 1812 5B

#### FISH AND WILDLIFE SERVICE, GAINESVILLE, FL. DENVER WILDLIFE RESEARCH CENTER.

Breeding Bird Response to Greentree Reservoir Management,  
W85-04082 1808 6G

Manatee Use of Power Plant Effluents in Brevard County, Florida,  
W85-04696 1809 5C

#### FISH AND WILDLIFE SERVICE, KEARNEYSVILLE, WV. EASTERN ENERGY AND LAND USE TEAM.

Production Forgone: An Alternative Method for Assessing the Consequences of Fish Entrainment and Impingement Losses at Power Plants and Other Water Intakes,  
W85-01025 1802 6B

#### FISHERIES AND MARINE SERVICE, SAULT STE. MARIE (ONTARIO). GREAT LAKES BIOLIMNOLOGY LAB.

Responses of Fish Communities to Acidic Waters in Ontario,  
W85-04204 1808 5C

#### FISHERIES RESEARCH CENTRE, KHARTOUM (SUDAN).

Fishes and Fisheries of Lake Nubia, Sudan,  
W85-01033 1802 2H

#### FISHERIES RESEARCH INST., SZARVAS (UNGARY).

Nitrogen Fixation in the Sediment of Shallow Lake Balaton, a Reservoir and Fishponds,  
W85-02903 1806 2H

#### FISHERIES RESEARCH SERVICES, GRAND CHENIER, LA.

Method for Measuring Stream Flows in Rivers,  
W85-03833 1808 7B

#### FLINDERS UNIV. OF SOUTH AUSTRALIA, BEDFORD PARK. SCHOOL OF EARTH SCIENCES.

Measuring Evapotranspiration by Hydrological Methods,  
W85-06667 1812 2D

#### FLOOD LOSS REDUCTION ASSOCIATES, PALO ALTO, CA.

Floodplain Management Handbook.  
W85-00059 1801 6F

#### FLOOD METEOROLOGICAL OFFICE, HYDERABAD (INDIA).

Case Study of 1981 Flood in the Godavari River,  
W85-05098 1810 2E

#### FLOOD METEOROLOGICAL OFFICE, JALPAIGURI (INDIA).

Study of Major Rainstorms of the Teesta Basin,  
W85-05097 1810 2B

#### FLORENCE UNIV. (ITALY). DEPT. OF CIVIL ENGINEERING.

River Bed Response to Man-Made Changes,  
W85-01535 1803 2J

#### FLORENCE UNIV. (ITALY). INST. OF ANALYTICAL CHEMISTRY.

Electroanalytical Methods for Monitoring Potabilization Processes,  
W85-02313 1805 5F

#### FLORENCE UNIV. (ITALY). IST. DI INFORMATICA E SISTEMISTICA.

Activated Sludge Process Control Using Dissolved Oxygen Measurements,  
W85-01433 1803 5D

#### FLORIDA A AND M UNIV., TALLAHASSEE, FL. DIV. OF AGRICULTURAL SCIENCE.

Using Clay Mineralogy to Infer Sources of Suspended Clay and Silt in a Watershed: Quantitative Approach,  
W85-03969 1808 2J

#### FLORIDA ATLANTIC UNIV., BOCA RATON.

Hydrogeologic Control and Statistical Prediction of Active Mass Movement,  
W85-04026 1808 8D

#### FLORIDA GAME AND FRESH WATER FISH COMMISSION, DE LEON SPRINGS.

Influences of Water Quality on Distribution of Striped Bass in a Tennessee River Impoundment,  
W85-06406 1812 5C

#### FLORIDA INST. OF TECH., MELBOURNE. DEPT. OF ENVIRONMENTAL SCIENCES AND ENGINEERING.

Water Quality Characteristics of Agricultural Pumpage in the Upper St. Johns River, Florida,  
W85-01386 1803 5B

Nitrogen and Phosphorus Removal by Cypress Swamp Sediments,  
W85-05695 1810 5D

Heavy Metals in the Drinking Water from Cistersn Supplying Single-Family Dwellings,  
W85-06545 1812 5F

#### FLORIDA INTERNATIONAL UNIV., MIAMI. DRINKING WATER QUALITY RESEARCH CENTER.

Simplified Liquid-Liquid Extraction Method for Analysis of Trihalomethanes in Drinking Water,  
W85-00697 1802 5A

Elimination of Ammonia Interference in the Purge-and-Trap GC Determination of Organohalogens in Water,  
W85-02811 1806 5A

Effluent Irrigation of Para Grass: Water, Nitrogen, and Biomass Budgets,  
W85-03132 1806 3C

#### FLORIDA STATE MUSEUM, GAINESVILLE.

Deepwater Sediments and Trophic Conditions in Florida Lakes,  
W85-02099 1804 2H

#### FLORIDA STATE UNIV., TALLAHASSEE. DEPT. OF BIOLOGICAL SCIENCE.

Trophic Response of Fishes to Habitat Variability in Coastal Seagrass Systems,  
W85-01890 1804 2L

Relationship of Physical Factors and Biological Response in Coastal Seagrass Meadows,  
W85-05705 1810 2L

#### FLORIDA STATE UNIV., TALLAHASSEE. DEPT. OF CHEMISTRY.

Determination of Phenols in Water Using Raman Spectroscopy,  
W85-02114 1804 5A

#### FLORIDA STATE UNIV., TALLAHASSEE. DEPT. OF METEOROLOGY.

Precipitable Water over Africa and the Eastern Central Atlantic Ocean During the 1979 Summer,  
W85-04024 1808 2B

#### FLORIDA STATE UNIV., TALLAHASSEE. DEPT. OF OCEANOGRAPHY.

Modeling Estuarine Nutrient Geochemistry in a Simple System,  
W85-01702 1804 2L

Determination of Inorganic Tellurium Species in Natural Waters,  
W85-02831 1806 2K

Geochemistry of Inorganic Germanium In Natural Waters,  
W85-04482 1809 2K

Geochemical Behavior of Inorganic Germanium in an Unperturbed Estuary,  
W85-04760 1809 2K

#### FLORIDA STATE UNIV., TALLAHASSEE. DEPT. OF URBAN AND REGIONAL PLANNING.

Environmental Conflicts in a Rapidly Growing Coastal Economy: The Case of South Florida,  
W85-00576 1802 6G

Water Use and Public Policy in Florida,  
W85-01575 1803 6E

#### FLORIDA UNIV., GAINESVILLE.

Comparing Soil Tests for a Forested Acid Sandy Soil Topdressed with Sewage Effluent,  
W85-02878 1806 5E

Drought and Flooding Effects on N2 Fixation, Water Relations, and Diffusive Resistance of Soybean,  
W85-03359 1807 2I

Declining-Rate Filters: Regulatory Aspects and Operating Results,  
W85-04407 1808 5F

#### FLORIDA UNIV., GAINESVILLE. AQUATIC PLANTS RESEARCH CENTER.

Cost Analysis of Aquatic Weed Control: Fish Versus Chemicals in a Florida Lake,  
W85-01584 1803 4A

#### FLORIDA UNIV., GAINESVILLE. BUREAU OF ECONOMIC AND BUSINESS RESEARCH.

Needed Economic Framework for Flood Plain Management,  
W85-03707 1807 4A

#### FLORIDA UNIV., GAINESVILLE. CENTER FOR AQUATIC WEEDS.

Prediction of Chlorophyll a Concentrations in Florida Lakes: Importance of Aquatic Macrophytes,  
W85-00154 1801 2H

Prediction of Secchi Disc Depths in Florida Lakes: Impact of Algal Biomass and Organic Color,  
W85-02477 1805 2H

## ORGANIZATIONAL INDEX

### FORSCHUNGSZENTRUM FUER WASSERTECHNIK, DRESDEN (GERMAN D.R.).

Toxicity of Adjuvants to Bluegill, W85-04354	1808 5C	<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF GEOGRAPHY.</b> Drought in Southeastern United States, W85-01642	1804 2B	Evolution of Design of Ford Motor Company Industrial Waste Treatment Facilities, W85-05397	1810 5D																																																																		
<b>FLORIDA UNIV., GAINESVILLE, CENTER FOR WETLANDS.</b>		<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF GEOLOGY.</b> Classification and Description of Dolomitic Fabrics of Rocks from the Floridan Aquifer, U.S.A., W85-01733	1804 2F	<b>FORD MOTOR CO., DETROIT, MI.</b> Oily Wastewater Treatment and the Impact of High Water Content Synthetic Fluids at Ford Motor Company, W85-05398	1810 5D																																																																		
Evapotranspiration of a Florida, U.S.A., Freshwater Wetland, W85-03759	1807 2D	Mineralogical Changes Along the Freshwater/Saltwater Interface of a Modern Aquifer, W85-06700	1812 2F	<b>FOREST ECOLOGY RESEARCH FUND, LAUNCESTON (AUSTRALIA).</b> Possible Effects of Forestry on Inland Waters of Tasmania; A Review, W85-07145	1812 4C																																																																		
<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF AGRICULTURAL ENGINEERING.</b>		<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF MICROBIOLOGY AND CELL SCIENCE.</b> Modified Membrane-Filter Procedure for Concentration of Enteroviruses From Tap Water, W85-05054	1810 5A	<b>FOREST PEST MANAGEMENT INST., SAULT SAINTE MARIE (ONTARIO).</b> Behavior and Degradation of Chloryrifos-methyl in Two Aquatic Models, W85-00162	1801 5B																																																																		
Data Requirement for Evapotranspiration Estimation, W85-02445	1805 2D	<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF SOIL SCIENCE.</b> Simulation of Nitrogen Dynamics in Flooded Soils, W85-03092	1806 2K	Distribution of Fenitrothion Residues in Brook Trout ( <i>Salvelinus fontinalis</i> ) and Lake Trout ( <i>Salvelinus namaycush</i> ) Tissues Following Aerial Applications to Lac Ste-Anne, Quebec, W85-02784	1806 5C																																																																		
Estimating Crop Growth Rate with Land Treatment, W85-02824	1806 5D	Sorption and Leaching of Three Nonfumigant Nematicides in Soils, W85-06426	1812 5B	Fate of Chemical Insecticides in Aquatic Environments, Forest Spraying in Canada, W85-06770	1812 5B																																																																		
Evapotranspiration of Lettuce in Relation to Water Table Depth, W85-03399	1807 2G	<b>FLORIDA UNIV., GAINESVILLE, INST. OF FOOD AND AGRICULTURAL SCIENCES.</b> Moisture Sensor-Controlled Irrigation for Maintaining Bermudagrass Turf, W85-03363	1807 3F	<b>FORSCHUNGSIINSTITUT FUER MIKROBIOLOGIE UND HYGIENE, BAD ELSTER (GERMAN D.R.).</b>																																																																			
Simulation of Possible Adaptive Mechanisms in Crops Subjected to Water Stress, W85-05170	1810 2I	Moisture Sensor-Controlled Irrigation for Reducing N Leaching in Bermudagrass Turf, W85-06187	1812 5G	Evapotranspiration and Water Use Efficiency of Taro, W85-06081	1811 2D	<b>FLORIDA UNIV., GAINESVILLE, LAB. OF ENVIRONMENTAL MICROBIOLOGY.</b> Effect of Acid Precipitation on Soil Microbial Activity: I. Soil Core Studies, W85-06618	1812 5C	Occurrence and Assessment of Polycyclic Aromatic Hydrocarbons in a River Loaded with Municipal and Industrial Wastewater (Vorkommen und Bewertung polzyklischer aromatischer Kohlenwasserstoffe in einem mit kommunalen und industriellen Abwassern belasteten Fließgewässer), W85-06258	1812 5B	Diurnal Changes in the Instantaneous Water Use Efficiency of a Soybean Crop, W85-06203	1812 2D	<b>FLORIDA UNIV., GAINESVILLE, SCHOOL OF FOREST RESOURCES AND CONSERVATION.</b> Effects of White Amur ( <i>Ctenopharyngodon idella</i> ) on a Florida Lake: A Model, W85-01306	1803 5G	Method of Analysis by Thin-Layer Chromatography for Active Components of Triazine Herbicides in Water (Dunschichtchromatographische Analysenmethode für herbizide Triazin-Wirkstoffe im Wasser), W85-06265	1812 5A	<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF BOTANY.</b>		Relations between Color and Some Limnological Characteristics of Florida Lakes, W85-01372	1803 2H	Problems in Water Contamination and its Analytical Understanding (Probleme der Wasserkontamination und ihrer analytischen Erfassung), W85-06267	1812 5A	Throughfall and Stem Flow in Mature and Year-Old Wet Tropical Forest, W85-04853	1809 2I	Mineral Concentration within Freshwater Marsh Plant Communities, W85-02250	1805 6G	Some Problems in the Application of the MPN Method for the Quantitative Determination of Salmonella (Einige Probleme bei der Anwendung des MPN-Verfahrens zur quantitativen Salmonellenbestimmung), W85-06650	1812 5A	Leaching from a Tropical Andept During Big Storms: A Comparison of Three Methods, W85-06209	1812 2G	Effects of Wastewater Disposal on Growth Rates of Cypress Trees, W85-03859	1808 5B	<b>FORSCHUNGSZENTRUM FUER BODENFRUCHTBARKEIT MUENCHEBERG (GERMAN D.R.), ABT. ERTRAGSSSTEUERUNG.</b>		<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF CHEMISTRY.</b>		<b>FLUOR CANADA LTD., CALGARY (ALBERTA).</b> Protect and Monitor Groundwater, W85-03744	1807 5G	Relative Leaf Water Content and Stress Index as a Criterion of the State of the Water Supply in Sugar Beet Under Field Conditions (Relativer Blattwassergehalt und Stressindex als Kriterium des Wasserversorgungszustandes bei Zuckerrüben unter Feldbedingungen), W85-03610	1807 2I	Determination of Aldicarb, Aldicarb Oxime, and Aldicarb Nitrile in Water by Gas Chromatography/Mass Spectrometry, W85-01078	1802 5A	<b>FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, MAPUTO (MOZAMBIQUE).</b> Agroclimatic Classification of the Semi-Arid Tropics III. Characteristics of Variables Relevant to Crop Product Potential, W85-06190	1812 2I	<b>FORSCHUNGSZENTRUM FUER WASSERTECHNIK, DRESDEN (GERMAN D.R.).</b>		<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF ENVIRONMENTAL ENGINEERING.</b>		<b>FORAS FORBARTRA, DUBLIN (IRELAND).</b> Sediment-Water Exchange in Lough Ennell with Particular Reference to Phosphorus, W85-04294	1808 2H	Biological-Chemical Method for Examination of the Inhibition of Decomposition and Elimination of Wastewater Organic Matter (Biologisch-chemisches Verfahren zur Prüfung des Abbau- und Eliminierungsverhaltens organischer Abwasserinhaltsstoffe), W85-06262	1812 5D	Effect of Acid Precipitation on Soil Microbial Activity: II. Field Studies, W85-06619	1812 5C	<b>FORD MOTOR CO., DEARBORN, MI.</b> Use of Bonded Phase Silica Sorbents for the Sampling of Priority Pollutants in Wastewater, W85-02809	1806 5A	<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF ENVIRONMENTAL ENGINEERING SCIENCES.</b>		Application of Nutrient Loading Models to the Analysis of Trophic Conditions in Lake Okeechobee, Florida, W85-00977	1802 5B	Determination of Aldicarb and its Derivatives in Groundwaters by High-Performance Liquid Chromatography with UV Detection, W85-01748	1804 5A	Precipitation Chemistry at Turrialba, Costa Rica, W85-03568	1807 2K	<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF FOOD SCIENCE AND HUMAN NUTRITION.</b>		Comparison of Selective Media for Assay of Coliphages in Sewage Effluent and Lake Water, W85-04258	1808 5A	<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF FRUIT CROPS.</b>		Waterlogging of Containerized Rabbiteye Blueberries in Florida, W85-06059	1811 2I
Evapotranspiration and Water Use Efficiency of Taro, W85-06081	1811 2D	<b>FLORIDA UNIV., GAINESVILLE, LAB. OF ENVIRONMENTAL MICROBIOLOGY.</b> Effect of Acid Precipitation on Soil Microbial Activity: I. Soil Core Studies, W85-06618	1812 5C	Occurrence and Assessment of Polycyclic Aromatic Hydrocarbons in a River Loaded with Municipal and Industrial Wastewater (Vorkommen und Bewertung polzyklischer aromatischer Kohlenwasserstoffe in einem mit kommunalen und industriellen Abwassern belasteten Fließgewässer), W85-06258	1812 5B																																																																		
Diurnal Changes in the Instantaneous Water Use Efficiency of a Soybean Crop, W85-06203	1812 2D	<b>FLORIDA UNIV., GAINESVILLE, SCHOOL OF FOREST RESOURCES AND CONSERVATION.</b> Effects of White Amur ( <i>Ctenopharyngodon idella</i> ) on a Florida Lake: A Model, W85-01306	1803 5G	Method of Analysis by Thin-Layer Chromatography for Active Components of Triazine Herbicides in Water (Dunschichtchromatographische Analysenmethode für herbizide Triazin-Wirkstoffe im Wasser), W85-06265	1812 5A																																																																		
<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF BOTANY.</b>		Relations between Color and Some Limnological Characteristics of Florida Lakes, W85-01372	1803 2H	Problems in Water Contamination and its Analytical Understanding (Probleme der Wasserkontamination und ihrer analytischen Erfassung), W85-06267	1812 5A																																																																		
Throughfall and Stem Flow in Mature and Year-Old Wet Tropical Forest, W85-04853	1809 2I	Mineral Concentration within Freshwater Marsh Plant Communities, W85-02250	1805 6G	Some Problems in the Application of the MPN Method for the Quantitative Determination of Salmonella (Einige Probleme bei der Anwendung des MPN-Verfahrens zur quantitativen Salmonellenbestimmung), W85-06650	1812 5A																																																																		
Leaching from a Tropical Andept During Big Storms: A Comparison of Three Methods, W85-06209	1812 2G	Effects of Wastewater Disposal on Growth Rates of Cypress Trees, W85-03859	1808 5B	<b>FORSCHUNGSZENTRUM FUER BODENFRUCHTBARKEIT MUENCHEBERG (GERMAN D.R.), ABT. ERTRAGSSSTEUERUNG.</b>																																																																			
<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF CHEMISTRY.</b>		<b>FLUOR CANADA LTD., CALGARY (ALBERTA).</b> Protect and Monitor Groundwater, W85-03744	1807 5G	Relative Leaf Water Content and Stress Index as a Criterion of the State of the Water Supply in Sugar Beet Under Field Conditions (Relativer Blattwassergehalt und Stressindex als Kriterium des Wasserversorgungszustandes bei Zuckerrüben unter Feldbedingungen), W85-03610	1807 2I																																																																		
Determination of Aldicarb, Aldicarb Oxime, and Aldicarb Nitrile in Water by Gas Chromatography/Mass Spectrometry, W85-01078	1802 5A	<b>FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, MAPUTO (MOZAMBIQUE).</b> Agroclimatic Classification of the Semi-Arid Tropics III. Characteristics of Variables Relevant to Crop Product Potential, W85-06190	1812 2I	<b>FORSCHUNGSZENTRUM FUER WASSERTECHNIK, DRESDEN (GERMAN D.R.).</b>																																																																			
<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF ENVIRONMENTAL ENGINEERING.</b>		<b>FORAS FORBARTRA, DUBLIN (IRELAND).</b> Sediment-Water Exchange in Lough Ennell with Particular Reference to Phosphorus, W85-04294	1808 2H	Biological-Chemical Method for Examination of the Inhibition of Decomposition and Elimination of Wastewater Organic Matter (Biologisch-chemisches Verfahren zur Prüfung des Abbau- und Eliminierungsverhaltens organischer Abwasserinhaltsstoffe), W85-06262	1812 5D																																																																		
Effect of Acid Precipitation on Soil Microbial Activity: II. Field Studies, W85-06619	1812 5C	<b>FORD MOTOR CO., DEARBORN, MI.</b> Use of Bonded Phase Silica Sorbents for the Sampling of Priority Pollutants in Wastewater, W85-02809	1806 5A																																																																				
<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF ENVIRONMENTAL ENGINEERING SCIENCES.</b>																																																																							
Application of Nutrient Loading Models to the Analysis of Trophic Conditions in Lake Okeechobee, Florida, W85-00977	1802 5B																																																																						
Determination of Aldicarb and its Derivatives in Groundwaters by High-Performance Liquid Chromatography with UV Detection, W85-01748	1804 5A																																																																						
Precipitation Chemistry at Turrialba, Costa Rica, W85-03568	1807 2K																																																																						
<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF FOOD SCIENCE AND HUMAN NUTRITION.</b>																																																																							
Comparison of Selective Media for Assay of Coliphages in Sewage Effluent and Lake Water, W85-04258	1808 5A																																																																						
<b>FLORIDA UNIV., GAINESVILLE, DEPT. OF FRUIT CROPS.</b>																																																																							
Waterlogging of Containerized Rabbiteye Blueberries in Florida, W85-06059	1811 2I																																																																						

## ORGANIZATIONAL INDEX

### FORSCHUNGSZENTRUM FUER WASSERTECHNIK, DRESDEN (GERMAN D.R.).

Relationship of Water Volume and Water Quality Parameters (Zum Zusammenhang von Parametern der Wassermengen und Wasserbeschaffenheit),  
W85-06662 1812 5B

### FORSCHUNGSZENTRUM WASSERTECHNIK, DRESDEN (GERMAN D.R.).

Studies on the Technology of Underground Water Treatment (Untersuchungen zu den Technologien der Aufbereitung von Wasser im Untergrund),  
W85-03526 1807 5F

### FORT COLLINS, CO.

Colorado Snow: A Resource and a Responsibility,  
W85-05480 1810 4A

### FORT COLLINS DEPT. OF PUBLIC WORKS, CO. ENGINEERING SERVICES.

Utility Approach to Comprehensive Stormwater Management,  
W85-06125 1811 4A

### FOX VALLEY WATER QUALITY PLANNING AGENCY, MENASHA, WI.

Areas Suitable for Application of Municipal Sludge,  
W85-00054 1801 5E

Groundwater: An Inventory of Wells and Contamination Potential Within the Silurian Aquifer of Calumet County,  
W85-00055 1801 5G

Trophic Status of the Winnebago Pool Lakes,  
W85-00829 1802 5C

Water Quality Management Plan, Fox River Valley, Wisconsin, Addendum II: Wasteload Allocation and Policy Recommendations for Dischargers to the Lower Fox River from Neenah-Menasha to De Pere.  
W85-00832 1802 5G

### FOX VALLEY WATER QUALITY PLANNING AGENCY, NEENAH, WI.

Wetlands of the Winnebago Pool: A Detailed Field Survey and Management Recommendations,  
W85-00828 1802 5G

Marsh and Wetland Study, (Fox River Valley, Wis.),  
W85-00831 1802 2H

Sludge Management Survey, (Fox River Valley, Wis.),  
W85-00834 1802 5G

### FOXBORO CO., MA.

Temperature Dependence and Measurement of Resistivity of Pure Water,  
W85-00945 1802 1A

### FRED HUTCHINSON CANCER RESEARCH CENTER, SEATTLE, WA.

Cancer Risk from Asbestos in Drinking Water: Summary of a Case-Control Study in Western Washington,  
W85-02705 1806 5C

### FREESE AND NICHOLS, INC., FORT WORTH, TX.

Optimal Design of Detention and Drainage Channel Systems,  
W85-04246 1808 4A

### FRESHWATER BIOLOGICAL ASSOCIATION, AMBLESIDE (ENGLAND).

Deposition of Fine and Coarse Sand in an Open-Work Gravel Bed,  
W85-00148 1801 2J

Mossbauer Spectroscopic and Chemical Studies of Particulate Iron Material from a Seasonally Anoxic Lake,  
W85-01096 1802 2H

Aggregation of Aquatic Humic Substances,  
W85-01106 1802 2K

Oxidation Products of Mn(II) in Lake Waters,  
W85-01107 1802 2H

Temperature Dependence of Mn(II) Oxidation in Lakewaters: A Test of Biological Involvement,  
W85-01130 1803 2H

Dynamics of Iron and Manganese in a Seasonally Anoxic Lake; Direct Measurement of Fluxes Using Sediment Traps,  
W85-01597 1803 2H

Sinking Losses of Phytoplankton in Closed Limnetic Systems,  
W85-02215 1805 2H

Measurements of Nitrification Rates in Lake Sediments: Comparison of the Nitrification Inhibitors Nitrapyrin and Allythiourea,  
W85-03304 1807 2H

Contribution of Nitrification in the Water Column and Profound Sediments to the Total Oxygen Deficit of the Hypolimnion of a Mesotrophic Lake (Grasmere, English Lake District),  
W85-03305 1807 2H

Airborne Remote Sensing for Freshwater and Estuarine Monitoring,  
W85-03538 1807 7B

Effects of Impoundment upon Fish Populations in Afferent Streams at Cow Green Reservoir,  
W85-04385 1808 6G

Algal Control of Lake Geochemistry; Redox Cycles in Rostherne Mere, U.K.,  
W85-04982 1810 2H

Interaction of Acetogens And Methanogens in Anaerobic Freshwater Sediments,  
W85-06146 1811 2H

Contemporary Lake Transport Processes Determined from Sedimentary Records of Copper Mining Activity,  
W85-06150 1811 2J

**FRESHWATER BIOLOGICAL ASSOCIATION, RIVER LABORATORY, DORSET, ENGLAND.**  
Classification of Sites on British Rivers Using Macroinvertebrates,  
W85-05674 1810 2H

**FRESHWATER BIOLOGICAL ASSOCIATION, WAREHAM (ENGLAND). RIVER LAB.**

Effects of Copper on Species Composition of Periphyton in a Sierra Nevada, California, Stream,  
W85-00294 1801 5C

Influence of Within-Stream Disturbance on Dissolved Nutrient Levels During Spates,  
W85-02089 1804 2E

Reliability of Suspended Load Estimates in Chalk Streams,  
W85-04054 1808 2J

Biology of *Brachycentrus subnubilus* Curtis (Trichoptera) in the River Frome, Dorset,  
W85-04887 1809 2H

Submerged Macrophytes and the Hydraulic Roughness of a Lowland Chalkstream,  
W85-05675 1810 2I

Chironomidae in a Pennine Stream System Receiving Mine Drainage and Organic Enrichment,  
W85-05868 1811 5C

### FRESHWATER BIOLOGICAL ASSOCIATION, WINDERMERE (ENGLAND).

Diel Aspects of the Thermal Structure and Energy Budget of a Small English Lake,  
W85-01462 1803 2H

Seasonal Variations in the Concentrations of Humic Substances in a Soft-Water Lake,  
W85-01590 1803 2H

Transport of Iron and Manganese in Relation to the Shapes of Their Concentration-Depth Profiles,  
W85-02090 1804 2K

### FRUIT AND FOOD TECHNOLOGY RESEARCH INST., STELLENBOSCH (SOUTH AFRICA).

Sensitivity of Stone Fruit Rootstocks to Waterlogging,  
W85-04812 1809 2I

Pedologic Properties of New Jersey Tidal Marshes,  
W85-04955 1809 2L

### FUNDACAO CENTRO TECNOLOGICO DE MINAS GERAIS (BRAZIL).

Simulation of the Urbanization Effect in Flow,  
W85-01134 1803 2E

### G.K. ASSOCIATES, WIRRAL (ENGLAND).

Regulation of the White Nile,  
W85-01137 1803 2A

### GAI CONSULTANTS, INC., MONROEVILLE, PA.

Computing Drawdown Distribution Using Microcomputers,  
W85-03157 1806 2F

### GAKUSHUIN UNIV., TOKYO (JAPAN). INST. OF ECOTOXICOLOGY.

Fate of 2,4,6-Trichlorophenol, Pentachlorophenol, p-Chlorobiphenyl, and Hexachlorobenzene in an Outdoor Experimental Pond: Comparison between Observations and Predictions Based on Laboratory Data,  
W85-03227 1807 5B

### GARYOUNIS UNIV., BENGHAZI (LIBYA). DEPT. OF ZOOLOGY.

Study of a Shallow Carp (*Cyprinus carpio* L.) Pond and its Relevance to Inland Fish Farming in Libyan Jamahiriya,  
W85-06486 1812 8I

### GCA CORP., BEDFORD, MA. GCA TECHNOLOGY DIV.

Chlorine Residual Monitoring in the Presence of N-Organic Compounds,  
W85-03618 1807 5F

### GDANSK TECHNICAL UNIV. (POLAND).

Presence of Tin and Tungsten in Thermal Waters Connected with Granites of Some Selected Regions in Europe,  
W85-05857 1811 2F

### GDANSK TECHNICAL UNIV. (POLAND). INST. OF HYDROTECHNICS.

Diurnal Changes in the Water Relations and Transpiration of a Soybean Crop Simulated During the Development of Water Deficits,  
W85-05932 1811 2I

### GEBRUEDER SULZER A.G., WINTERTHUR (SWITZERLAND). WASSER- UND ABWASSERTECHNIK.

Lamellar Flowpack Clarifiers for Sedimentation (Schragklarer fur die Sedimentation),  
W85-01361 1803 5D

## ORGANIZATIONAL INDEX

### GEOLOGICAL SURVEY, BATON ROUGE, LA. WATER RESOURCES DIV.

**GENERAL ACCOUNTING OFFICE,  
WASHINGTON, DC. OFFICE OF THE  
COMPTROLLER GENERAL.**

Analysis of Issues Concerning 'Acid Rain':  
Report to the Congress of the United States.  
W85-06944 1812 6B

**GENERAL MOTORS CORP., LOCKPORT, NY.  
HARRISON RADIATOR DIV.**

Gravity Filtration for Reduction of Suspended  
Metals in a Lime Precipitation Treatment  
System,  
W85-05235 1810 5D

**GENERAL MOTORS RESEARCH LABS.,  
WARREN, MI. ENVIRONMENTAL SCIENCE  
DEPT.**

Effect of Local Emissions on Wet and Dry  
Deposition in Southeastern Michigan,  
W85-01298 1803 5B

**GENERAL RESEARCH CORP., MCLEAN, VA.**  
Liming of Acidified Waters: A Review of Meth-  
ods and Effects on Aquatic Ecosystems,  
W85-05310 1810 5C

**GENEVA UNIV. (SWITZERLAND). DEPT. OF  
INORGANIC, ANALYTICAL AND APPLIED  
CHEMISTRY.**

Interaction Between Interstitial Water and Sediment  
in Two Cores of Lac Leman, Switzerland,  
W85-02084 1804 2H

Importance of Speciation Methods in Analytical  
Control of Water Treatment Processes With Ap-  
plication to Fluoride Removal From Waste  
Waters,  
W85-04485 1809 5A

Natural Organic Matter and Metal-Organic  
Interactions in Aquatic Systems,  
W85-05326 1810 2K

**GENEVA UNIV. (SWITZERLAND). INST. F.-A.  
FOREL.**

Basic Concepts and Associated Statistical Meth-  
odology in the Geochemical Study of Lake  
Sediments,  
W85-02064 1804 2J

Manganese Cycle in Lac Leman, Switzerland:  
The Role of Metallogenium,  
W85-02081 1804 2H

Climatic and Anthropogenic Effects on the Sedi-  
mentation and Geochemistry of Lakes Bourget,  
Annecy and Leman,  
W85-02102 1804 2H

**GENEVA UNIV. (SWITZERLAND). MASS  
SPECTROMETRY CENTER.**

5-alpha(H)-Cholestan-3-alpha-ol in Sediments:  
Characterization and Geochemical Significance,  
W85-04759 1809 2K

**GENO UNIV. (ITALY). INST. OF  
HYDRAULICS.**

Linear Approach to the Influence of Discharge  
Measurement Error on Flood Estimates,  
W85-05907 1811 2E

**GENO UNIV. (ITALY). IST. DI SCIENZE E  
TECNOLOGIE DELL'INGEGNERIA  
CHEMICA.**

Influence of Process Variables on the Modelling  
and Design of a Rotating Biological Surface,  
W85-07116 1812 5D

**GEO ASSOCIATES, STAFFORD, TX.**

Ground-Water/Subsidence Model: A Manage-  
ment Tool,  
W85-01568 1803 2F

**GEO-RECON INTERNATIONAL LTD.,  
SEATTLE, WA.**

Electrical Resistivity Studies to Delimit Zones  
of Acceptable Ground Water Quality,  
W85-03176 1806 2B

**GEOLOGICAL SURVEY, ALBANY, NY.**

Saltwater-Freshwater Interface in the Tertiary  
Limestone Aquifer, Southeast Atlantic Outer-  
Continental Shelf of the U.S.A.,  
W85-00020 1801 2F

Heavy Metals in Bottom Sediments from the  
Saw Mill River, West Chester County, New  
York, 1981,  
W85-00206 1801 5B

**GEOLOGICAL SURVEY, ALBANY, NY.  
WATER RESOURCES DIV.**

Polychlorinated Biphenyl Concentrations in the  
Hudson River Water and Treated Drinking  
Water at Waterford, N.Y.,  
W85-00835 1802 5F

Trends in Polychlorinated Biphenyl Concentra-  
tions in Hudson River Water Five Years after  
Elimination of Point Sources,  
W85-00856 1802 5B

Acid Precipitation- An Annotated Bibliography.  
W85-00864 1802 10C

Geohydrology of the Meadowbrook Artificial-  
Recharge Project Site in East Meadow, Nassau  
County, New York,  
W85-01774 1804 2F

Altitude of the Top of the Matawan Group-  
Magothy Formation, Suffolk Country, Long  
Island, New York,  
W85-02030 1804 7B

Data for Ground-Water Studies of the San Juan  
Basin, New Mexico (1982-83),  
W85-02034 1804 7C

Floods of August 7-8, 1979, in Chautauqua  
County, New York, with Hydraulic Analysis of  
Canadaway Creek in the Village of Fredonia,  
W85-02051 1804 2E

Stratified-Drift Aquifers in the Susquehanna  
River Basin, New York,  
W85-03896 1808 2F

**GEOLOGICAL SURVEY, ALBUQUERQUE,  
NM. WATER RESOURCES DIV.**

Geohydrology of the Proposed Waste Isolation  
Pilot Plant Site, Los Medanos Area, Southeast-  
ern New Mexico,  
W85-00594 1802 2F

Estimates of Vertical Hydraulic Conductivity  
and Regional Ground-Water Flow Rates in  
Rocks of Jurassic and Cretaceous Age, San Juan  
Basin, New Mexico and Colorado,  
W85-00844 1802 2F

Simulated Changes in Ground-Water Levels Re-  
lated to Proposed Development of Federal Coal  
Leases, San Juan Basin, New Mexico,  
W85-00858 1802 4C

Instrumentation Used for Hydraulic Testing of  
Potential Water-Bearing Formations at the  
Waste Isolation Pilot Plant Site in Southeastern,  
New Mexico,  
W85-01827 1804 7B

Annual Water-Resources Review, White Sands  
Missile Range, New Mexico, 1982,  
W85-01927 1804 2E

Estimation of Natural Streamflow in the Jemez  
River at the Boundaries of Indian Lands, Central  
New Mexico,  
W85-02048 1804 2E

Availability of Hydrologic Data in San Juan  
County, New Mexico,  
W85-03961 1808 2E

**GEOLOGICAL SURVEY, ANCHORAGE, AK.  
WATER RESOURCES DIV.**

Sediment Transport in the Tanana River near  
Fairbanks, Alaska, 1982,  
W85-01769 1804 2J

Reconnaissance of Surface Water Resources in  
the Togiak River Basin, Southwestern Alaska,  
1980 and 1982,  
W85-01777 1804 2A

Sediment Transport in the Tanana River near  
Fairbanks, Alaska, 1980-81,  
W85-01788 1804 2J

Activities of the Alaska District, Water Re-  
sources Division, U.S. Geological Survey, 1984.  
W85-01825 1804 10C

**GEOLOGICAL SURVEY, ANNAPOLIS, MD.  
WATER RESOURCES DIV.**

Difference Between the Potentiometric Surfaces  
of the Magothy Aquifer of September 1975 Dif-  
fered from the Potentiometric Surface of Sep-  
tember 1981 in Southern Maryland,  
W85-03931 1808 2F

**GEOLOGICAL SURVEY, ATLANTA, GA.  
WATER RESOURCES DIV.**

Base Flow of Streams in the Outcrop Area of  
Southeastern Sand Aquifer: South Carolina,  
Georgia, Alabama, and Mississippi,  
W85-03940 1808 2E

**GEOLOGICAL SURVEY, AUGUSTA, ME.  
WATER RESOURCES DIV.**

Time of Travel and Dispersion Study in the  
Androscoggin River Basin, Maine,  
W85-03911 1808 2E

**GEOLOGICAL SURVEY, AUSTIN, TX.  
WATER RESOURCES DIV.**

Projected Effects of Proposed Chloride-Control  
Projects on Shallow Ground Water--Preliminary  
Results for the Wichita River Basin, Texas,  
W85-00026 1801 5G

Conveyance Characteristics of the Nueces  
River, Cotulla to Simmons, Texas,  
W85-00033 1801 4A

Water-Quality Records for Selected Reservoirs  
in Texas, 1976-77 Water Years,  
W85-00621 1802 5A

Water Quality of Belton Lake, Central Texas,  
W85-00622 1802 5A

Records of Wells, Drillers' Logs, Water-Level  
Measurements, and Chemical Analyses of  
Ground Water in Chambers, Liberty, and Mont-  
gomery Counties, Texas, 1975-79,  
W85-01818 1804 2F

Records of Wells, Drillers' Logs, Water-Level  
Measurements, and Chemical Analyses of  
Ground Water in Brazoria, Fort Bend, and  
Waller Counties, Texas, 1975-79,  
W85-01819 1804 2F

Water Quality of Lake Arlington on Village  
Creek, North-Central Texas, 1973 to 1981,  
W85-02042 1804 2H

Effects of Storm-Water Runoff on Water Quality  
of the Edwards Aquifer near Austin, Texas,  
W85-03914 1808 5B

**GEOLOGICAL SURVEY, BATON ROUGE, LA.  
WATER RESOURCES DIV.**

Regional Geohydrology of the Northern Louisi-  
ana Salt-Dome Basin, Part IV, Hydraulic Char-  
acteristics of the Wilcox-Carrizo Aquifer,  
W85-00034 1801 4B

## ORGANIZATIONAL INDEX

### GEOLOGICAL SURVEY, BATON ROUGE, LA. WATER RESOURCES DIV.

Southern Hills Regional Aquifer System of Southeastern Louisiana and Southwestern Mississippi, W85-00848	1802 2F	Assessment of Cumulative Impacts of Coal Mining on the Hydrology in Part of the Powder River Structural Basin, Wyoming--A Progress Report, W85-00847	1802 4C	Water Analysis, W85-07112	1812 5A
Regional Geohydrology of the Northern Louisiana Salt-Dome Basin, Part III, Potentiometric Levels of the Wilcox-Carrizo and Sparta Aquifers, W85-01785	1804 2F	Computer Program and Data Listing for Two-Dimensional Ground-Water Model for Laramie County, Wyoming, W85-01787	1804 7C	<b>GEOLOGICAL SURVEY, DENVER, CO.</b>	
Preconstruction and Simulated Postconstruction Ground-Water Levels at Urban Centers in the Red River Navigation Project Area, Louisiana, W85-03929	1808 2F			<b>WATER RESOURCES DIV.</b>	
<b>GEOLOGICAL SURVEY, BAY SAINT LOUIS, MS. WATER RESOURCES DIV.</b>				Sources and Mechanisms of Recharge for Ground Water in the West-Central Amargosa Desert, Nevada--A Geochemical Interpretation, W85-00598	1802 2F
Digital Model for Streamflow Routing by Convolution Methods, W85-03942	1808 2E			Use of Rainfall-Simulator Data in Precipitation-Runoff Modeling Studies, W85-00837	1802 2A
<b>GEOLOGICAL SURVEY, BISMARCK, ND. WATER RESOURCES DIV.</b>				Quality-Assurance Data for Routine Water Analysis in the Laboratories of the U.S. Geological Survey for Water-Year 1982, W85-01768	1804 7C
Inventory and Analyses of Information for Flood Plain Management in North Dakota, W85-00617	1802 4A	Effect of the Proposed Cooper River Rediversion on Sedimentation in Charleston Harbor, South Carolina, W85-00846	1802 4D	True Location and Orientation of Fractures Logged with the Acoustic Televiewer (Including Programs to Correct Fracture Orientation), W85-01780	1804 2F
Guide to North Dakota's Ground-Water Resources, W85-01824	1804 2F	Water Resources Data, South Carolina, Water Year 1982, W85-01937	1804 2E	Machine-Readable Data Files from the Madison Limestone and Northern Great Plains Regional Aquifer System Analysis Projects, Montana, Nebraska, North Dakota, South Dakota, and Wyoming, W85-01790	1804 7C
Water Resources Data, North Dakota, Water Year 1982, W85-01936	1804 2E	Impact of Discharges from Point and Nonpoint Sources on Water Quality of the Upper Reedy River near Greenville, South Carolina, W85-03895	1808 5B	Geohydrologic Data for Test Well USW G-4, Yucca Mountain Area, Nye County, Nevada, W85-02031	1804 7C
Water-Resources Investigations in North Dakota--Fiscal Year 1984, W85-03909	1808 10C	<b>GEOLOGICAL SURVEY, COLUMBUS, OH. WATER RESOURCES DIV.</b>		Interpretation of Grain-Size Distributions from Measured Sediment Data, Platte River, Nebraska, W85-03214	1806 2J
Hydrology of the Wibaux-Beach Lignite Deposit Area, Eastern Montana and Western North Dakota, W85-03945	1808 2K	Measurement of the Reeration Coefficients of the North Fork Licking River at Utica, Ohio, by Radioactive Tracers, W85-00853	1802 5A	Two-Dimensional, Steady-State Model of Ground-Water Flow, Nevada Test Site and Vicinity, Nevada-California, W85-03893	1808 2F
Atmospheric Deposition: Sample Handling, Storage, and Analytical Procedures for Chemical Characterization of Event-Based Samples in North Dakota, W85-03949	1808 5A	Ground-Water Hydrology before, during, and after Coal Strip Mining of a Small Watershed in Coshocton County, Ohio, W85-00857	1802 5B	Geohydrologic and Drill-Hole Data for Test Well USW H-3, Nye County, Nevada, W85-03901	1808 2F
<b>GEOLOGICAL SURVEY, BOISE, ID. WATER RESOURCES DIV.</b>		Ground-Water Hydrology and Quality before and after Strip Mining of a Small Watershed in Jefferson County, Ohio, W85-01943	1804 4C	Channel Changes of Powder River Between Moorhead and Broadus, Montana, 1939-1978, W85-03910	1808 2J
Ground-water Quality in the Western Snake River Basin, Swan Falls to Glenns Ferry, Idaho, W85-01784	1804 2F	Drift Mine Reclamation in Big Four Hollow near Lake Hope, Ohio--A Preliminary Data Report, W85-03950	1808 5G	Effect of Anisotropy and Groundwater System Geometry on Seepage Through Lakebeds; 2. Numerical Simulation Analysis, W85-04276	1808 2F
Comparison of Methods for Estimating Ground-Water Pumpage for Irrigation, W85-05843	1810 2F	<b>GEOLOGICAL SURVEY, DENVER, CO.</b>		Ecological Effect of Acid Conditions and Precipitation of Hydrous Metal Oxides in a Rocky Mountain Stream, W85-04389	1808 2H
<b>GEOLOGICAL SURVEY, BOSTON, MA. WATER RESOURCES DIV.</b>		Bed-Material Entrainment and Hydraulic Geometry of Gravel-Bed Rivers in Colorado, W85-01133	1803 2E	<b>GEOLOGICAL SURVEY, DORAVILLE, GA.</b>	
Water Resources Data, New Hampshire and Vermont, Water Year 1982, W85-01933	1804 2E	Bonded-Phase Extraction Column Isolation of Organic Compounds in Groundwater at a Hazardous Waste Site, W85-03734	1807 5A	Comparison of Aquifer Characteristics Derived from Local and Regional Aquifer Tests, W85-06819	1812 2F
Water Resources Data, Massachusetts and Rhode Island, Water Year 1982, W85-01935	1804 2E	Analysis of Trace Metals in Water by Inductively Coupled Plasma Emission Spectrometry Using Sodium Dibenzylidithiocarbamate for Preconcentration, W85-03743	1807 5A	<b>GEOLOGICAL SURVEY, DORAVILLE, GA. WATER RESOURCES DIV.</b>	
<b>GEOLOGICAL SURVEY, CARSON CITY, NV. WATER RESOURCES DIV.</b>		Adsorption and Desorption of Hexavalent Chromium in an Alluvial Aquifer Near Telluride, Colorado, W85-06626	1812 5B	Ground Water in the Greater Atlanta Region, Georgia, W85-00866	1802 2F
Flood Potential of Forty-mile Wash and its Principal Southwestern Tributaries, Nevada Test Site, Southern Nevada, W85-02037	1804 2E	Validation of an Automated Fluorescein Method for Determining Bromide in Water, W85-06737	1812 5A	Effects of the Drought of 1980-81 on Streamflow and on Ground-water Levels in Georgia, W85-01783	1804 2E
<b>GEOLOGICAL SURVEY, CHEYENNE, WY. WATER RESOURCES DIV.</b>		Releases of Radium and Uranium into Ralston Creek and Reservoir, Colorado, from Uranium Mining, W85-06776	1812 5B	Water Resources Data, Georgia, Water Year 1982, W85-01938	1804 2E
Hydrologic Conditions in the Wheatland Flats Area, Platte County, Wyoming, W85-00031	1801 4B			Use of a Digital Model to Evaluate Hydrogeologic Controls on Groundwater Flow in a Fractured Rock Aquifer at Niagara Falls, New York, U.S.A., W85-04273	1808 2F

## ORGANIZATIONAL INDEX

### GEOLOGICAL SURVEY, LANSING, MI. WATER RESOURCES DIV.

#### **GEOLOGICAL SURVEY, FLAGSTAFF, AZ.**

Climate and Ephemeral-Stream Processes: Twentieth-Century Geomorphology and Alluvial Stratigraphy of the Little Colorado River, Arizona, W85-01606 1803 2E

#### **GEOLOGICAL SURVEY, HARRISBURG, PA.**

##### **WATER RESOURCES DIV.**

Effects of Specific Land Uses on Nonpoint Sources of Suspended Sediment, Nutrients, and Herbicides- Pequea Creek Basin, Pennsylvania 1979-80, W85-00855 1802 5B

#### **GEOLOGICAL SURVEY, HARTFORD, CT.**

##### **WATER RESOURCES DIV.**

Evaluation and Design of a Streamflow-Data Network for Connecticut, W85-00052 1801 7A

Hydrogeologic Evaluation of Selected Stratified-Drift Deposits in Connecticut, W85-00842 1802 2F

#### **GEOLOGICAL SURVEY, HELENA, MT.**

##### **WATER RESOURCES DIV.**

Water-Resources Investigations of the U.S. Geological Survey in Montana, October 1982 through September 1983, W85-00616 1802 7C

Statistical Analysis and Evaluation of Water-Quality Data for Selected Streams in the Coal Area of East-Central Montana, W85-01770 1804 5B

Water Resources of the Fort Union Coal Region, East-Central Montana, W85-01772 1804 2F

Streamflow Characteristics of the Yellowstone River Basin, Montana, Through September 1982, W85-01781 1804 2E

Potential Effects of Surface Coal Mining on the Hydrology of the Bloomfield Coal Tract, Dawson County, Eastern Montana, W85-01791 1804 2F

Potential Effects of Surface Coal Mining on the Hydrology of the Corral Creek Area, Hanging Woman Creek Coal Field, Southeastern Montana, W85-02040 1804 5B

Changes on the Shallow Ground-Water Resources of the Yellowstone River Valley near Billings, Montana, August 1968-1978, W85-03938 1808 2F

Hydrogeologic Data for Selected Test Wells Drilled in the Fort Union Coal Region, Eastern Montana, W85-03952 1808 2F

#### **GEOLOGICAL SURVEY, HONOLULU, HI.**

##### **WATER RESOURCES DIV.**

Effects of Pumpage, Irrigation Return, and Regional Ground-Water Flow on the Water Quality at Waiawa Water Tunnel, Oahu, Hawaii, W85-00850 1802 5G

Exploratory Drilling and Aquifer Testing at the Kipahulu District Haleakala National Park, Maui, Hawaii, W85-01776 1804 2F

Water Resources of the Palau Islands, W85-03935 1808 2E

Water Resources of Kosrae, Caroline Islands, W85-03936 1808 2E

Water Resources of Ponape, Caroline Islands, W85-03937 1808 2E

Simulation of Ground-Water Flow in Southeastern Oahu, Hawaii, W85-06821 1812 2F

#### **GEOLOGICAL SURVEY, HURON, SD.**

##### **WATER RESOURCES DIV.**

Water Resources of Hanson and Davison Counties, South Dakota, W85-00588 1802 2F

Preliminary Assessment of the Hydrologic Characteristics of the James River in South Dakota, W85-00592 1802 2A

Major Aquifers in Miner County, South Dakota, W85-01950 1804 2F

Flow-Duration Hydrographs for Selected Streamflow Stations on South Dakota Streams, W85-03923 1808 2E

#### **GEOLOGICAL SURVEY, INDIANAPOLIS, IN.**

##### **WATER RESOURCES DIV.**

Low-Flow Characteristics of Indiana Streams, W85-00600 1802 2E

Shallow Ground-Water Flow and Drainage Characteristics of the Brown Ditch Basin near the East Unit, Indiana Dunes National Lakeshore, Indiana, 1982, W85-01948 1804 4A

Ground-Water Resources of the White River Basin, Randolph County, Indiana, W85-03902 1808 2F

Potential Effects on Ground Water of a Hypothetical Surface Coal Mine in Indiana, W85-04418 1809 4C

#### **GEOLOGICAL SURVEY, IOWA CITY, IA.**

##### **WATER RESOURCES DIV.**

Hydrology of Area 38, Western Region, Interior Coal Province, Iowa and Missouri, W85-00597 1802 5B

Water Resources Data, Iowa, Water Year 1982, W85-01931 1804 2E

#### **GEOLOGICAL SURVEY, JACKSON, MS.**

##### **WATER RESOURCES DIV.**

Water-Level Maps of the Alluvial Aquifer, Northwestern Mississippi, April, 1982, W85-01926 1804 7C

Water-Level Maps of the Alluvial Aquifer in Northwestern Mississippi, April 1983, W85-01944 1804 7C

Selected Bibliography of Water Resources Publications for Mississippi, W85-02033 1804 10C

Altitude and Generalized Configuration of the Top of the Floridan Aquifer, St. Johns County, Florida, W85-02050 1804 7C

Potentiometric Map of the Gordo Aquifer in Northeastern Mississippi, November and December 1982, W85-03943 1808 2F

#### **GEOLOGICAL SURVEY, JACKSONVILLE, FL.**

##### **WATER RESOURCES DIV.**

Relation of Concealed Faults to Water Quality and the Formation of Solution Features in the Floridan Aquifer, Northeastern Florida, U.S.A., W85-00021 1801 2F

#### **GEOLOGICAL SURVEY, LAGUNA NIGUEL, CA.**

##### **WATER RESOURCES DIV.**

Simple Model of a Phreatic Surface Through an Earth Dam, W85-04175 1808 2F

#### **GEOLOGICAL SURVEY, LAKEWOOD, CO.**

Hydraulics of High-Gradient Streams, W85-03774 1808 2E

Modeling the Interrelationship of Groundwater and Surface Water, W85-05318 1810 2F

Comparison of Daily and Weekly Precipitation Sampling Efficiencies Using Automatic Collectors, W85-05694 1810 7B

#### **GEOLOGICAL SURVEY, LAKEWOOD, CO.**

##### **WATER RESOURCES DIV.**

Data Management System for Areal Interpretive Data for the High Plains in Parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming, W85-00593 1802 7C

Evaluation of Trends in the Acidity of Precipitation and the Related Acidification of Surface Water in North America, W85-00605 1802 5B

Reservoir Evaporation in Central Colorado, W85-00613 1802 2D

Generalized Altitude and Configuration of the Water Table in Parts of Larimer, Logan, Sedgewick, and Weld Counties, Colorado, W85-01775 1804 2F

Daily Water and Sediment Discharges from Selected Rivers of the Eastern United States: A Time-Series Modeling Approach, W85-01823 1804 2J

Hydrology of Lake Padgett, Saxon Lake, and Adjacent Area, Pasco County, Florida, W85-01826 1804 7C

Water Resources Division Training Catalog, W85-02032 1804 9B

Basic Concepts of Kinematic-Wave Models, W85-02035 1804 2A

Calibration and Verification of a Rainfall-Runoff Model and a Runoff-Quality Model for Several Urban Basins in the Denver Metropolitan Area, Colorado, W85-02044 1804 2A

Sediment Transport in the Lower Yampa River, Northwestern Colorado, W85-02045 1804 2J

Freshwater Oncolites Created by Industrial Pollution, Onondaga lake, New York, W85-03217 1806 5C

Shallow Ground Water in the Boulder-Fort Collins-Greeley Area, Front Range Urban Corridor, Colorado, 1975-1977, W85-03941 1808 2F

Variation in pH During Summer Storms near the Continental Divide in Central Colorado, U.S.A., W85-05766 1810 2K

#### **GEOLOGICAL SURVEY, LANSING, MI.**

##### **WATER RESOURCES DIV.**

Ground-Water Data for Michigan--1982, W85-00615 1802 7C

Estimates of Dissolved and Suspended Substance Yield of Stream Basins in Michigan, W85-01942 1804 5A

Water Resources of Sleeping Bear Dunes National Lakeshore, Michigan, W85-03917 1808 2E

## ORGANIZATIONAL INDEX

### GEOLOGICAL SURVEY, LAWRENCE, KS. WATER RESOURCES DIV.

#### GEOLOGICAL SURVEY, LAWRENCE, KS. WATER RESOURCES DIV.

Water-Resources Investigations of the U.S. Geological Survey in Kansas--Fiscal Years 1981 and 1982,  
W85-00041 1801 7C

Regional Study of the Dakota Aquifer (Darton's Dakota Revisited),  
W85-00320 1801 2F

Physical and Hydrologic Environments of the Mulberry Coal Reserves in Eastern Kansas,  
W85-00595 1802 6G

Hydrologic Responses of Stream's to Mining of the Mulberry Coal Reserves in Eastern Kansas,  
W85-01782 1804 2E

Improvement of Flood-Frequency Estimates for Selected Small Watersheds in Eastern Kansas using a Rainfall-Runoff Model,  
W85-01786 1804 2A

Hydrologic Maps of the High Plains Aquifer, January 1981, Southwestern Kansas,  
W85-01930 1804 7C

Water Resources Data, Kansas Water Year 1982,  
W85-01932 1804 2E

Application of Remote-Sensing Techniques to Hydrologic Studies in Selected Coal-Mined Areas of Southeastern Kansas,  
W85-01947 1804 5B

Flood-Frequency Estimates for Five Gaged Basins in Wichita, Kansas,  
W85-01949 1804 2A

Depth and Thickness of Selected Units in Upper Permian, Upper Jurassic, and Lower Cretaceous Rocks in Southwestern Kansas,  
W85-03921 1808 2F

#### GEOLOGICAL SURVEY, LINCOLN, NE.

##### WATER RESOURCES DIV.

Hydraulic Conductivity, Specific Yield, and Pumpage - High Plains Aquifer System, Nebraska,  
W85-00032 1801 7C

Hydrogeology of Parts of the Central Platte and Lower Loup Natural Resources Districts, Nebraska,  
W85-03905 1808 2F

Hydrologic Analysis of the High Plains Aquifer System in Box Butte County, Nebraska,  
W85-03915 1808 2F

#### GEOLOGICAL SURVEY, LITTLE ROCK, AR.

##### WATER RESOURCES DIV.

Water Resources Data, Arkansas, Water Year 1982,  
W85-01934 1804 2E

Water-Quality Assessment of the Illinois River Basin, Arkansas,  
W85-03925 1808 5B

Report of the Annual Yield of the Arkansas River Basin for the Arkansas River Basin Compact, Arkansas-Oklahoma, 1983 Water Year,  
W85-03951 1808 2E

#### GEOLOGICAL SURVEY, LOUISVILLE, KY.

##### WATER RESOURCES DIV.

Problems of Rising Ground-Water Levels in Urban Areas with Special Reference to the Louisville, Kentucky Area,  
W85-00027 1801 4B

Water Resources Data, Kentucky, Water Year 1982,  
W85-01923 1804 2E

Fluvial Sedimentation of Kentucky,  
W85-03897 1808 2J

#### GEOLOGICAL SURVEY, MADISON, WI.

##### WATER RESOURCES DIV.

Public-Supply Pumpage in Wisconsin, by Aquifer,  
W85-00618 1802 4B

Automatic Dilution Gaging of Rapidly Varying Flow,  
W85-00852 1802 7A

GEOLOGICAL SURVEY, MENLO PARK, CA.

Hydrogeochemistry of Big Soda Lake, Nevada: An Alkaline Meromitic Desert Lake,  
W85-00297 1801 2H

Degradation of Phenolic Contaminants in Ground Water by Anaerobic Bacteria: St. Louis Park, Minnesota,  
W85-00348 1801 5D

Copper Transport along a Sierra Nevada Stream,  
W85-00719 1802 5B

Double-Porosity Models for a Fissured Ground-water Reservoir with Fracture Skin,  
W85-02150 1804 2F

Eulerian-Lagrangian Solution of the Convection-Dispersion Equation in Natural Coordinates,  
W85-02162 1804 1B

Numerical Noise in Ocean and Estuarine Models,  
W85-03475 1807 2L

Numerical Simulation of Phytoplankton Productivity in Partially Mixed Estuaries,  
W85-03636 1807 2L

Denitrification Associated with Stream Periphyton: Chamber Estimates from Undisrupted Communities,  
W85-03852 1808 2H

Interactions of Solutes and Streambed Sediment; 1. An Experimental Analysis of Cation and Anion Transport in a Mountain Stream,  
W85-03985 1808 2K

Interactions of Solutes and Streambed Sediment; 2. A Dynamic Analysis of Coupled Hydrologic and Chemical Processes That Determine Solute Transport,  
W85-03986 1808 2K

Transport and Concentration Controls for Chloride, Strontium, Potassium and Lead in Uvas Creek, a Small Cobble-Bed Stream in Santa Clara County, California, U.S.A.; 1. Conceptual Model,  
W85-04270 1808 2K

Contrast in Stream-Channel Response to Major Storms in Two Mountainous Areas of California,  
W85-04836 1809 2J

Hydraulic Gradient Control for Groundwater Contaminant Removal,  
W85-05533 1810 5F

Role of Wood Debris in Modifying Channel Geomorphology and Riparian Areas of a Large Lowland River under Pristine Conditions: A Historical Case Study,  
W85-05668 1810 2J

Seasonal Changes in the Chemistry and Biology of a Meromitic Lake (Big Soda Lake, Nevada, U.S.A.),  
W85-05756 1810 2H

Separation of Solute and Particulate Vectors of Heavy Metals Uptake in Controlled Suspension-Feeding Experiments with *Macoma balthica*,  
W85-05863 1811 5C

Effects of Copper on Production of Periphyton, Nitrogen Fixation and Processing of Leaf Litter in a Sierra Nevada, California, Stream,  
W85-06414 1812 5C

Developing Objectives for the Ground Water Quality Monitoring Network of the Salinas River Drainage Basin,  
W85-06830 1812 7A

#### GEOLOGICAL SURVEY, MENLO PARK, CA.

##### GEODIGIC DIV.

Specific-Ion Electrode Determinations of Sulfide Preconcentrated from San Francisco Bay Waters,  
W85-03978 1808 2K

#### GEOLOGICAL SURVEY, MENLO PARK, CA.

##### WATER RESOURCES DIV.

Hydrology of the Newberry Volcano Caldera, Oregon,  
W85-00084 1801 2F

Development of a Model to Predict the Adsorption of Lead from Solution on a Natural Streambed Sediment,  
W85-00604 1802 5B

Data for Ground-Water Test Hole near Nicolaus, Central Valley Aquifer Project, California,  
W85-01929 1804 7C

Data for Ground-Water Test Hole Near Butte City, Central Valley Aquifer Project, California,  
W85-01941 1804 7C

Ground Water in the Redding Basin, Shasta and Tehama Counties, California,  
W85-01945 1804 4B

Effect of Organic Contamination upon Microbial Distributions and Heterotrophic Uptake in a Cape Cod, Mass., Aquifer,  
W85-03736 1807 5C

Geohydrology, Aqueous Geochemistry, and Thermal Regime of the Soda Lakes and Upsilon Hogback Geothermal Systems, Churchill County, Nevada,  
W85-03898 1808 2F

Low-Flow Transport Models for Conservative and Sorbed Solutes - Uvas Creek Studies,  
W85-03948 1808 2B

Problems in Estimating Self-Supplied Industrial Water Use by Indirect Methods--The California Example,  
W85-03957 1808 6D

Engineering Economic Analysis of a Program for Artificial Groundwater Recharge,  
W85-05001 1810 4B

#### GEOLOGICAL SURVEY, MIAMI, FL. WATER RESOURCES DIV.

Complexation of Trace Metals by Adsorbed Natural Organic Matter,  
W85-00296 1801 5B

Public Supply Water Use, Palm Beach County, Florida, 1978-82,  
W85-03916 1808 6D

GEOLOGICAL SURVEY, NASHVILLE, TN.

Variability in Measured Bedload-Transport Rates,  
W85-06237 1812 2J

## ORGANIZATIONAL INDEX

### GEOLOGICAL SURVEY, RICHMOND, VA. WATER RESOURCES DIV.

#### **GEOLOGICAL SURVEY, NASHVILLE, TN. WATER RESOURCES DIV.**

Effects of Urbanization on the Magnitude and Frequency of Floods on Small Streams in Tennessee - Basic Data Report No. 3,  
W85-00619

1802 4C

#### **GEOLOGICAL SURVEY, NSTL STATION, MS. GULF COAST HYDROSCIENCE CENTER.**

Convergent Flow Pattern at an Abrupt Contraction,  
W85-07101

1812 2E

#### **GEOLOGICAL SURVEY, NSTL STATION, MS. HYDROLOGIC INSTRUMENTATION FACILITY.**

Ground Water Instrumentation Program of the U.S. Geological Survey,  
W85-03181

1806 7B

#### **GEOLOGICAL SURVEY OF CANADA, OTTAWA (ONTARIO). TERRAIN SCIENCES DIV.**

Hudson Bay River Sediments and Regional Glaciation: I. Iron and Carbonate Dispersal Trains Southwest of Hudson and James Bay,  
W85-00145

1801 2J

Hudson Bay River Sediments and Regional Glaciation: II. Comparison of Carbonate Mineralogy of Size Fractions for Ice Movement Inference,  
W85-00146

1801 2J

#### **GEOLOGICAL SURVEY OF ISRAEL, JERUSALEM.**

Brackish Groundwater as an Alternative Source of Cooling Water for Nuclear Power Plants in Israel,  
W85-04599

1809 4B

Current Subsurface Seawater Intrusion to Base Levels Below Sea Level,  
W85-06161

1811 2F

#### **GEOLOGICAL SURVEY OF NEW SOUTH WALES, SYDNEY (AUSTRALIA).**

Temperature Characteristics, Annual Heat Storage, and River Diversion Influence on a Monomictic Lake,  
W85-03110

1806 2H

#### **GEOLOGICAL SURVEY, OKLAHOMA CITY, OK. WATER RESOURCES DIV.**

Water-Level Changes in the High Plains Regional Aquifer, Northwestern Oklahoma, Development to 1980,  
W85-01771

1804 2F

Hydrology of an Abandoned Coal-Mining Area near McCurtain, Haskell County, Oklahoma,  
W85-02041

1804 5B

Numerical Simulation of the High Plains Regional Aquifer, Northwestern Oklahoma,  
W85-03899

1808 2F

Oklahoma: Summary of Activities of the U.S. Geological Survey, Water Resources Division, Oklahoma District, 1983,  
W85-03922

1808 10C

#### **GEOLOGICAL SURVEY, PORTLAND, OR. WATER RESOURCES DIV.**

Water Resources of Western Douglas County, Oregon,  
W85-00590

1802 2A

Selected Ground-Water Data in Parts of Gilliam, Morrow, and Umatilla Counties, Oregon,  
W85-00602

1802 7C

Method for Relating Suspended-Chemical Concentrations to Suspended-Sediment Particle-Size Classes in Storm-Water Runoff,  
W85-00614

1802 5B

Chemical Analyses of Elutriates, Native Water, and Bottom Material from Chetco, Rogue, and Columbia Rivers in Western Oregon,  
W85-03947

1808 2K

#### **GEOLOGICAL SURVEY, PROVIDENCE, RI. WATER RESOURCES DIV.**

Aquifer Tests in the Stratified Drift, Chipuxet River Basin, Rhode Island,  
W85-02039

1804 2F

#### **GEOLOGICAL SURVEY, PROVIDENCE, RI. WATER RESOURCES DIV.**

Modification of the Finite-Difference Model for Simulation of Two-Dimensional Ground-Water Flow to Include Surface-Ground Water Relationships,  
W85-00845

1802 2F

#### **GEOLOGICAL SURVEY, RALEIGH, NC. WATER RESOURCES DIV.**

Basic Ground-Water Hydrology,  
W85-00036

1801 2F

Ground-Water Regions of the United States,  
W85-00037

1801 2F

Classification of Ground-Water Systems of the United States,  
W85-00318

1801 2F

Ground-Water Supply Potential and Procedures for Well-site Selection, Upper Cape Fear River Basin,  
W85-00584

1802 2F

Drainage Areas of Selected Sites on Streams in North Carolina,  
W85-00599

1802 7C

Effects of Channel Excavation on Water-Quality Characteristics of the Black River and on Ground-Water Levels near Dunn, North Carolina,  
W85-01924

1804 2A

Hydrologic Condition of the Chicod Creek Basin, North Carolina, Before and During Channel Modifications, 1975-81,  
W85-03928

1808 4A

#### **GEOLOGICAL SURVEY, RESTON, VA. WATER RESOURCES DIV.**

Representation of Multi-aquifer Well Effects in Three-Dimensional Ground-Water Flow Simulation,  
W85-00316

1801 4B

Isotopes in Ground-Water Investigations,  
W85-00351

1801 2F

Population Growth Patterns of Skeletonema costatum and Nutrient Levels in the Lower East River, New York, U.S.A.,  
W85-00397

1801 5C

Nutrient Exchange across the Sediment-Water Interface in the Potomac River Estuary,  
W85-00655

1802 2L

Effect of Censoring Trace-Level Water-Quality Data on Trend-Detection Capability,  
W85-01125

1803 7C

Nonparametric Trend Test for Seasonal Data with Serial Dependence,  
W85-01347

1803 2A

Relationships Between Water Quality and Phosphorus Concentrations for Puget Sound Region Lakes,  
W85-01379

1803 5C

Benthic Phosphorus Regeneration in the Potomac River Estuary,  
W85-02088

1804 2L

Origin and Distribution of Carbon Dioxide in the Unsaturated Zone of the Southern High Plains of Texas,  
W85-02661

1805 2K

Geomorphic and Vegetative Characteristics along Three Northern Virginia Streams,  
W85-02834

1806 2E

Development of Earth Satellite Technology for the Telemetry of Hydrologic Data,  
W85-02989

1806 7B

Methods of Fitting a Straight Line to Data: Examples in Water Resources,  
W85-03136

1806 6A

Note on the Applicability of the James-Stein Estimator in Regional Hydrologic Studies,  
W85-03562

1807 2A

Palmer Drought Severity Index: Limitations and Assumptions,  
W85-03848

1808 2B

Palmer Drought Severity Index as a Measure of Hydrologic Drought,  
W85-06245

1812 2B

Water Balance Models in One-Month-Ahead Streamflow Forecasting,  
W85-06514

1812 2E

Losses from Effluent Taxes and Quotas under Uncertainty,  
W85-07089

1812 5G

#### **GEOLOGICAL SURVEY, RESTON, VA. WATER RESOURCES DIV.**

National Water Summary 1983- Hydrologic Events and Issues,  
W85-00035

1801 6B

Estimated Use of Water in the United States in 1980,  
W85-00042

1801 6D

Computer Routines for Probability Distributions, Random Numbers, and Related Factors,  
W85-00587

1802 7C

Assessment of Steady-State Propane-Gas Tracer Method for Reeration Coefficients - Coweselon Creek, New York,  
W85-00838

1802 5G

Highlights of the 1983 Federal-State Cooperative Water Resources Program,  
W85-01829

1804 9D

Computation of Continuous Streamflow Records,  
W85-02053

1804 2E

Treatment of Evapotranspiration, Soil Moisture Accounting, and Aquifer Recharge in Monthly Water Balance Models,  
W85-02370

1805 2A

Analysis and Characteristics of Simulated Flows from Small Surface-Mined and Undisturbed Appalachian Watersheds in the Tug Fork Basin of Kentucky, Virginia, and West Virginia,  
W85-03918

1808 2E

Evidence of Floods on the Potomac River from Anatomical Abnormalities in the Wood of Flood-Plain Trees,  
W85-06360

1812 2I

#### **GEOLOGICAL SURVEY, RICHMOND, VA. WATER RESOURCES DIV.**

Quality of Ground Water in Southern Buchanan County, Virginia,  
W85-00025

1801 2K

## ORGANIZATIONAL INDEX

### GEOLOGICAL SURVEY, ROLLA, MO. WATER RESOURCES DIV.

#### GEOLOGICAL SURVEY, ROLLA, MO.

##### WATER RESOURCES DIV.

Hydrology of Carbonate Terrane - Niangua, Osage Fork, and Grandglaize Basins, Missouri, W85-00582 1802 2F

Suspended-Sediment Data in the Salt River Basin, Missouri, W85-00859 1802 7C

#### GEOLOGICAL SURVEY, SACRAMENTO, CA.

##### WATER RESOURCES DIV.

Summary of Ground-Water Pumpage in the Central Valley, California, 1961-77, W85-00591 1802 4B

Evaluation of the San Dieguito, San Elijo, and San Pasqual Hydrologic Subareas for Reclaimed Water Use, San Diego County, California, W85-00839 1802 5D

Injection of Treated Wastewater for Ground-Water Recharge in the Palo Alto Baylands, California, Hydraulic and Chemical Interactions-Preliminary Report, W85-00840 1802 5G

Ground Water in North Monterey County, California, 1980, W85-00851 1802 2F

Ground Water in the Twenty-Nine Palms Indian Reservation and Vicinity, San Bernardino County, California, W85-01779 1804 2F

Water-Quality Study of the Russian River Basin During the Low-Flow Season 1973-78, Sonoma and Mendocino Counties, California, W85-03919 1808 5B

Geochemistry of Ground Water in the Sacramento Valley, California, W85-03926 1808 2K

Trace Metals in San Francisco Bay, California, near the Proposed San Luis Drain Discharge Site: A Preliminary Report, W85-03927 1808 5A

Evaluation of the Potential for Artificial Ground-Water Recharge in Eastern San Joaquin County, California-Phase 2, W85-03933 1808 2F

Ground Water in the Fresno Area, California--A Progress Report, W85-03954 1808 2F

Map of the Carpinteria Area and Vicinity, Santa Barbara County, California, Showing Water-Level Contours for March 1982, W85-03955 1808 2F

Map of the Carpinteria Area and Vicinity, Santa Barbara County, California, Showing Water-Level Contours for March 1983, and Net Change in Water Level Between March 1982 and March 1983, W85-03956 1808 7C

#### GEOLOGICAL SURVEY, SALT LAKE CITY, UT. WATER RESOURCES DIV.

Surface Water and Climatologic Data, Salt Lake County, Utah, Water Year 1981, With Selected Data for Water Years 1980 and 1982, W85-00603 1802 7C

Three-Dimensional Digital-Computer Model of the Principal Ground-Water Reservoir of the Sevier Desert, Utah, W85-01925 1804 7C

Reconnaissance of the Shallow-Unconfined Aquifer in Salt Lake Valley, Utah, W85-03892 1808 2F

Sanitary Quality of the Jordan River in Salt Lake County, Utah, W85-03908 1808 5B

Reconnaissance of the Quality of Surface Water in the Weber River Basin, Utah, W85-03930 1808 2K

Ground-Water Reconnaissance of the Central Weber River Area, Morgan and Summit Counties, Utah, W85-03939 1808 2F

#### GEOLOGICAL SURVEY, SAN ANTONIO, TX.

Hydrostratigraphic Subdivisions and Fault Barriers of the Edwards Aquifer, South-Central Texas, U.S.A., W85-00008 1801 2F

#### GEOLOGICAL SURVEY, SAN JUAN, PR.

##### WATER RESOURCES DIV.

Hydraulic Technique for Designing Scavenger-Production Well Couples to Withdraw Freshwater from Aquifers Containing Saline Water, W85-06316 1812 3B

#### GEOLOGICAL SURVEY, SIOUX FALLS, SD.

##### WATER RESOURCES DIV.

Application of Digital Mapping Technology to the Display of Hydrologic Information, a Proof-of-Concept Test in the Fox-Wolf River Basin, Wisconsin, W85-00586 1802 7A

#### GEOLOGICAL SURVEY, ST. PAUL, MN.

Anisotropy in the Ironton and Galesville Sandstones Near a Thermal-Energy-Storage Well, St. Paul, Minnesota, W85-02684 1805 2F

#### GEOLOGICAL SURVEY, ST. PAUL, MN.

##### WATER RESOURCES DIV.

Hydrogeologic and Water-Quality Characteristics of the Ironton-Galesville Aquifer, Southeast Minnesota, W85-00028 1801 4B

Appraisal of Water from Surficial-Outwash Aquifers in Todd County and Parts of Cass and Morrison Counties, Central Minnesota, W85-02038 1804 4B

Water Levels and Water-Level Changes in the Prairie du Chien-Jordan and Mount Simon-Hinckley Aquifers, Twin Cities Metropolitan Area, Minnesota, 1971-80, W85-03946 1808 2F

#### GEOLOGICAL SURVEY, SYOSSET, NY.

##### WATER RESOURCES DIV.

Sources of Nitrate in Ground Water in a Sewered Housing Development, Central Long Island, New York, W85-01529 1803 5B

Nitrogen-Isotope Ratios of Nitrate in Ground Water Under Fertilized Fields, Long Island, New York, W85-04641 1809 5B

#### GEOLOGICAL SURVEY, TACOMA, WA.

##### WATER RESOURCES DIV.

Effect of Glaciers on Streamflow Variations, W85-06512 1812 2E

#### GEOLOGICAL SURVEY, TACOMA, WA.

##### WATER RESOURCES DIV.

Water Resources of the Tulalip Indian Reservation, Washington, W85-00030 1801 4B

Estimation of Nonpoint Source Loadings of Phosphorus for Lakes in the Puget Sound Region, Washington, W85-00038 1801 5B

Nisqually Glacier, Mount Rainier, Washington, 1857-1979: A Summary of the Long-Term Observations and a Comprehensive Bibliography, W85-00039 1801 2C

Flood Elevations for the Soleduck River at Sol Duc Hot Springs, Clallam County, Washington, W85-01773 1804 4A

Fluoride, Nitrate, and Dissolved-Solids Concentrations in Ground Waters of Washington, W85-01828 1804 2F

Occurrence, Quality, and Use of Ground Water in Orcas, San Juan, Lopez, and Shaw Islands, San Juan County, Washington, W85-02043 1804 7C

Availability of Ground Water from the Alluvial Aquifer on the Nisqually Indian Reservation, Washington, W85-03891 1808 2F

Reconnaissance of the Water Resources of the Shoalwater Bay Indian Reservation and Adjacent Areas, Pacific County, Washington, 1978-79, W85-03906 1808 2F

#### GEOLOGICAL SURVEY, TALLAHASSEE, FL.

##### WATER RESOURCES DIV.

Subsurface Storage of Freshwater in South Florida: A Prospectus, W85-00029 1801 4B

Hydrologic Data from an Area Southwest of Tallahassee, Florida, Where Municipal Wastewater Effluent is Applied by Spray Irrigation, W85-00040 1801 7C

Chloride Concentrations in the Coastal Margin of the Floridan Aquifer, Southwest Florida, W85-00585 1802 2F

Technique for Estimating Magnitude and Frequency of Floods on Natural-Flow Streams in Florida, W85-00589 1802 2E

Subsurface Storage of Freshwater in South Florida: A Digital Model Analysis of Recoverability, W85-00601 1802 4B

Water-Quality Assessment of Stormwater Runoff from a Heavily Used Urban Highway Bridge in Miami, Florida, W85-00841 1802 5B

Effects of Recharge from Drainage Wells on Quality of Water in the Floridan Aquifer in the Orlando Area, Central Florida, W85-00843 1802 5G

Origins and Distribution of Saline Ground Waters in the Floridan Aquifer in Coastal Southwest Florida, W85-01778 1804 2K

Municipal Solid-Waste Disposal and Ground-Water Quality in a Coastal Environment, West-Central Florida, W85-01789 1804 5E

Distribution of Selected Chemical Constituents in Water from the Floridan Aquifer, Southwest Florida Water Management District, W85-01928 1804 7C

Trends and Fluctuations in the Potentiometric Surface of the Floridan Aquifer, West-Central Florida, 1961-80, W85-01940 1804 7C

Hydrogeology and Water Quality of Six Landfill Sites in Hillsborough County, Florida, W85-01946 1804 5B

## ORGANIZATIONAL INDEX

**GEORGIA INST. OF TECH., ATLANTA. SCHOOL OF CIVIL ENGINEERING.**

Projected Public Supply and Rural (Self-Supplied) Water Use in Florida Through Year 2020, W85-02036	1804 7C	<b>GEOLOGICAL SURVEY, TAMPA, FL.</b> Subsurface Injection of Treated Sewage into a Saline-Water Aquifer at St. Petersburg, Florida - Water-Quality Changes and Potential for Recovery of Injected Sewage, W85-01526	1803 5D	Effects of Urban Stormwater Runoff on Reservoir Phytoplankton, W85-05633	1810 5C
Drainage Basins in Duval County, Florida, W85-02046	1804 7C	<b>Fouling Community of the Loxahatchee River Estuary, Florida, 1980-81, W85-02398</b>	1805 2L	<b>GEORGE WASHINGTON UNIV., WASHINGTON, DC.</b> From the Atlantic to the Great Lakes: A History of the U.S. Army Corps of Engineers and the St. Lawrence Seaway, W85-05576	1810 8A
Magnitude and Frequency of Floods from Urban Streams in Leon County, Florida, W85-02047	1804 4A	<b>Field Testing the Hypothesis of Darcian Flow through a Carbonate Aquifer, W85-02686</b>	1805 4B	<b>GEORGE WASHINGTON UNIV., WASHINGTON, DC. DEPT. OF CIVIL, MECHANICAL, AND ENVIRONMENTAL ENGINEERING.</b> Treatment of a High-Strength Industrial Waste in a Continuously Fed, Intermittently Operated, Activated Sludge System, W85-03867	1808 5D
Recharge and Discharge Areas of the Floridan Aquifer in the St. Johns River Water Management District and Vicinity, Florida, W85-02049	1804 7C	<b>GEOLOGICAL SURVEY, TOWSON, MD.</b> <b>WATER RESOURCES DIV.</b> Downstream Effects of Reservoir Releases to the Potomac River from Luke, Maryland, to Washington, D.C., W85-00836	1802 4A	<b>GEORGE WASHINGTON UNIV., WASHINGTON, DC. INTERNATIONAL WATER RESOURCES INST.</b> Estimation of Skewness of Hydrologic Variables, W85-02161	1804 2A
Hydrogeology of Well-Field Areas near Tampa, Florida, Phase 2--Development and Documentation of a Quasi-Three-Dimensional Finite-Difference Model for Simulation of Steady-State Ground-Water Flow, W85-02052	1804 2F	Field and Laboratory Analyses of Water from the Columbia Aquifer in Eastern Maryland, W85-01533	1803 5A	Hydraulic-Resistance Terms Modified for the Dressler Curved-Flow Equations, W85-02929	1806 2E
Accumulation of Trace Elements, Pesticides, and Polychlorinated Biphenyls in Sediment and the Clam Corbicula manilensis of the Apalachicola River, Florida, W85-02213	1805 5B	<b>GEOLOGICAL SURVEY, TRENTON, NJ.</b> <b>WATER RESOURCES DIV.</b> Distribution of Volatile Organic Compounds in a New Jersey Coastal Plain Aquifer System, W85-06825	1812 5B	<b>GEORGIA COASTAL PLAIN EXPERIMENT STATION, TIFTON.</b> Riparian Forests as Nutrient Filters in Agricultural Watersheds, W85-00127	1801 2I
Wetlands in Florida, W85-03894	1808 2H	Evaluation of Water Levels in Major Aquifers of the New Jersey Coastal Plain, 1978, W85-00854	1802 2F	Corn Irrigation Scheduled by Tensiometer and the Lambert Model in the Humid Southeast, W85-03358	1807 2I
Subsurface Storage of Freshwater in South Florida: Evaluation of Surface-Water Discharge Data at Selected Sites, W85-03900	1808 4B	<b>GEOLOGICAL SURVEY, TUCSON, AZ.</b> Flash Flood in Tanque Verde Creek, Tucson, Arizona, W85-03793	1808 2E	Approximate Method for Partitioning Daily Streamflow Data, W85-03758	1807 2A
Ground-Water Resources of St. Johns County, Florida, W85-03903	1808 2F	<b>GEOLOGICAL SURVEY, TUCSON, AZ.</b> <b>WATER RESOURCES DIV.</b> Geohydrology and Water Resources of the Papago Farms-Great Plain Area, Arizona, Papago Indian Reservation Arizona, and the Upper Rio Sonoyta, Sonora, Mexico, W85-03920	1808 2F	<b>GEORGIA COASTAL PLAIN EXPERIMENT STATION, TIFTON. DEPT. OF AGRICULTURAL ENGINEERING.</b> Effect of Soil Surface Conditions on Infiltration for Shallow Water Table Soils, W85-06087	1811 2G
Hydrogeology of the Verna Well-Field Area and Management Alternatives For Improving Yield and Quality of Water, Sarasota County, Florida, W85-03904	1808 2F	Annual Summary of Ground-Water Conditions in Arizona, Spring 1982 to Spring 1983, W85-03958	1808 2F	<b>GEORGIA DEPT. OF NATURAL RESOURCES, ATLANTA. ENVIRONMENTAL PROTECTION DIV.</b> Case Histories: Pretreatment of Poultry Processing Wastewater, W85-05408	1810 5D
Attenuation of Stormwater Contaminants from Highway Runoff within Unsaturated Limestone, Dade County, Florida, W85-03912	1808 5B	<b>GEOLOGICAL SURVEY, TUSCALOOSA, AL.</b> <b>WATER RESOURCES DIV.</b> Water Resources Data, Alabama, Water Year 1982, W85-01939	1804 2E	<b>GEORGIA INST. OF TECH., ATLANTA. DEPT. OF CIVIL ENGINEERING.</b> Nitrification of Anaerobically Treated Coal Gasified Effluent, W85-02587	1805 5D
Ground-Water Models as a Management Tool in Florida, W85-03913	1808 6A	Water in Sand and Gravel Deposits in McHenry County, Illinois, W85-03907	1808 2K	<b>GEORGIA INST. OF TECH., ATLANTA. ENVIRONMENTAL RESOURCES CENTER.</b> Fracture Trace Analysis to Increase the Probability of Locating Groundwater for Murray County, Georgia, W85-06313	1812 2F
Ground-Water Models as a Management Tool in Florida, W85-03924	1808 2F	<b>GEORGIA MASON UNIV., FAIRFAX, VA.</b> <b>DEPT. OF BIOLOGY.</b> Phytoplankton as a Factor in the Decline of the Submerged Macrophyte <i>Myriophyllum spicatum</i> L. in Lake Wingra, Wisconsin, U.S.A., W85-00999	1802 2H	Annual Report of Georgia Water Resources Research Institute Activities under Public Law 95-467 in Fiscal Year 1983, W85-06320	1812 9D
Quality of Water Recovered from a Municipal Effluent Injection Well in the Floridan Aquifer System, Pompano Beach, Florida, W85-03932	1808 5E	Water in Sand and Gravel Deposits in McHenry County, Illinois, W85-03907	1808 2K	<b>GEORGIA INST. OF TECH., ATLANTA. SCHOOL OF CIVIL ENGINEERING.</b> Formation of Stable Organic Chloramines During the Aqueous Chlorination of Cytosine and 5-Methylcytosine, W85-01726	1804 5F
Water-Use Computer Programs for Florida, W85-03934	1808 7C	<b>GEORGIA MASON UNIV., FAIRFAX, VA.</b> <b>DEPT. OF BIOLOGY.</b> Application of a Primary Production Model to Epiphytic Algae in a Shallow, Eutrophic Lake, W85-03730	1807 2H	Kinetics and Products of the Chlorination of Caffeine in Aqueous Solution, W85-01727	1804 5B
Attenuation of Stormwater Contaminants from Highway Runoff within Unsaturated Limestone, Dade County, Florida, W85-03944	1808 5B				
Enhanced Job Control Language Procedures for the SIMSYS2D Two-Dimensional Water-Quality Simulation System, W85-03953	1808 7C				
Geohydrologic Reconnaissance of Drainage Wells in Florida, W85-03959	1808 2F				
Regional Flood Relations for Unregulated Lakes in West Central Florida, W85-03960	1808 2E				

## ORGANIZATIONAL INDEX

### GEORGIA INST. OF TECH., ATLANTA. SCHOOL OF CIVIL ENGINEERING.

Dynamics of Jets in Two-Layer Stratified Fluids, W85-02450	1805 8B	Geological Factors Influencing Well Productivity on the Georgia Piedmont, W85-06319	1812 2F	<b>GEORGIA UNIV., SAPELO ISLAND. MARINE INST.</b>	
Effective Use of Cooling Lakes and Cooling Towers in Hybrid Cooling Systems, W85-06314	1812 8B	<b>GEORGIA UNIV., ATHENS. DEPT. OF MICROBIOLOGY.</b>		Static and Dynamic Aspects of Nitrogen Cycling in the Salt Marsh Graminoid Spartina alterniflora, W85-00257	
Jet Entrainment in Pumped-Storage Reservoirs, W85-06921	1812 8B	Relative Contributions of Bacteria and Fungi to Rates of Degradation of Lignocellulosic Detritus in Salt-Marsh Sediments, W85-02138	1804 2L	1801 2L	
<b>GEORGIA STATE UNIV., ATLANTA. DEPT. OF GEOLOGY.</b>		<b>GEORGIA UNIV., ATHENS. DEPT. OF ZOOLOGY.</b>		Above- and Belowground Emergent Macrophyte Production and Turnover in a Coastal Marsh Ecosystem, Georgia, W85-02791	
Groundwater Residence Times and Recharge Rates Using a Discrete-State Compartment Model and 14C Data, W85-01174	1803 2F	Water Environs of Okefenokee Swamp: An Application of Static Linear Environ Analysis, W85-01301	1803 2L	1806 2L	
<b>GEORGIA UNIV., ATHENS. CARL VINSON INST. OF GOVERNMENT.</b>		System Theory Formulation of Site-Specific Water Quality Standards and Protocols, W85-02340	1805 5C	<b>GEOTOXI ASSOCIATES, INC., GLASTONBURY, CT.</b>	
Municipal Use of Existing Wells for Supplemental Water Supply in the Piedmont and Blue Ridge Provinces of Georgia, W85-06318	1812 6C	<b>GEORGIA UNIV., ATHENS. INST. OF ECOLOGY.</b>		Ground Water Monitoring at a Septage Lagoon Facility in Connecticut, W85-00365	
<b>GEORGIA UNIV., ATHENS. DEPT. OF AGRICULTURAL ECONOMICS.</b>		Influence of Hydrologic Conditions and Successional State on Dissolved Organic Carbon Export from Forested Watersheds, W85-00254	1801 5B	1801 5B	
Irrigation Scheduling - A Valid Option with Microprocessor-Based Controls, W85-01076	1802 3F	Effects of Watershed Disturbance on Dissolved Organic Carbon Dynamics of a Stream, W85-00255	1801 5B	<b>GEOTRANS, INC., HERNDON, VA.</b>	
<b>GEORGIA UNIV., ATHENS. DEPT. OF AGRONOMY.</b>		Growth of Bacteria and the Fungus Phaeosphaeria Typharum (Desm.) Holm (Eumycota:Ascomycotina) In Salt-Marsh Microcosms in the Presence and Absence of Mercury, W85-01163	1803 5C	Finite Element Matrix and Mass Balance Computational Schemes for Transport in Variably Saturated Porous Media, W85-05798	
Effect of Moisture Stress on Seed Growth in Soybeans, W85-03356	1807 2I	Annual Cycle of Bacterial Secondary Production in Five Aquatic Habitats of the Okefenokee Swamp Ecosystem, W85-05512	1810 2H	1810 5B	
Movement of Water in a Plinthic Paleudult Using a Bromide Tracer, W85-04957	1809 2G	System for Examining the Response of Aquatic Ecosystems to Gradual Chemical Inputs, and Field Application in Okefenokee Swamp, Georgia, W85-06396	1812 5C	<b>GEOTRANS, INC., RESTON, VA.</b>	
Effect of Sewage Sludge on Mobilization of Surface-Applied Calcium in a Greenville Soil, W85-06748	1812 5E	Regional Priorities for Abandoned Mine Reclamation in the Blacklick Creek Watershed, Pennsylvania, W85-06607	1812 5G	Techniques for Making Finite Elements Competitive in Modeling Flow in Variably Saturated Porous Media, W85-02366	
<b>GEORGIA UNIV., ATHENS. DEPT. OF BIOCHEMISTRY.</b>		Land Environments of Water Resource Management, W85-06695	1812 2A	1805 2G	
Primary and Bacterial Production in Two Dimictic Indiana Lakes, W85-05507	1810 2H	<b>GEORGIA UNIV., ATHENS. SCHOOL OF ENVIRONMENTAL DESIGN.</b>		<b>Ground-Water Modeling,</b> W85-05351	1810 2F
Seasonal Bacterial Production in a Dimictic Lake as Measured by Increases in Cell Numbers and Thymidine Incorporation, W85-05508	1810 2H	Additional Tests on the Effect of Rainfall Intensity on Storm Flow and Peak Flow from Wild-Land Basins, W85-02166	1804 2E	<b>GERAGHTY AND MILLER, INC., SYOSSET, NY.</b>	
Thymidine Incorporation by Free-Living and Particle-Bound Bacteria in a Eutrophic Dimictic Lake, W85-05509	1810 2H	Effect of Clear-Cut Silviculture on Dissolved Ion Export and Water Yield in the Piedmont, W85-02171	1804 5B	Pinelands Commission, New Jersey, Hydrogeology Assessment. W85-00815	
<b>GEORGIA UNIV., ATHENS. DEPT. OF ENTOMOLOGY.</b>		Dependence of Storm Flows on Rainfall Intensity and Vegetal Cover in South Africa, W85-04284	1808 2E	1802 5G	
Invertebrate Drift, Discharge, and Sediment Relations in a Southern Appalachian Headwater Stream, W85-00400	1801 2H	Simulation of Herbicide Concentrations in Stormflow From Forested Watersheds, W85-04991	1810 2A	<b>GERAGHTY AND MILLER, INC., TAMPA, FL.</b>	
Substrate-mediated Response of Stream Invertebrates to Disturbance, W85-02818	1806 5C	Photolysis of Aromatic Compounds in Water in the Presence of Hydrogen Peroxide, W85-04349	1808 5B	Techniques for Protecting Groundwater Quality, W85-00698	
Quantification of Wood Habitat in Subtropical Coastal Plain Streams, W85-03601	1807 2H	Long-term Effects of 1,2,4-Trichlorobenzene on Freshwater Plankton in an Outdoor-Model-Ecosystem, W85-07154	1812 5C		
<b>GEORGIA UNIV., ATHENS. DEPT. OF GEOGRAPHY.</b>					
Application of LANDSAT Imagery to Flood Studies in the Remote Nahanni Karst, Northwest Territories, Canada, W84-00024	1801 2A				
Photogrammetric Technique for Measuring Soil Erosion, W85-01323	1803 7B				

## ORGANIZATIONAL INDEX

GORAKHPUR UNIV. (INDIA). DEPT. OF ZOOLOGY.

<b>GESELLSCHAFT FUER STRAHLEN- UND UMWELTFORSCHUNG M.B.H. MUENCHEN, NEUHERBERG (GERMANY, F.R.) INST. FUER OKOLOGISCHE CHEMIE.</b>	
Prediction of Ecotoxicological Behaviour of Chemicals: Relationship between n-Octanol/Water Partition Coefficient and Bioaccumulation of Organic Chemicals by Alga Chlorella, W85-01959	1804 5B
Influence of Tetrachloroethylene on the Biota of Aquatic Systems: Toxicity to Phyto- and Zooplankton Species in Compartments of a Natural Pond, W85-02196	1805 5C
<b>GHENT RIJKSUNIVERSITEIT (BELGIUM). FACULTEIT LANDBOUWETENSCHEPPEN.</b>	
Evaluation of the Burns Model for Nitrate Movement in Wet Sandy Soils, W85-04248	1808 2K
<b>GHENT RIJKSUNIVERSITEIT (BELGIUM). INST. VOOR NUKLEIRE WETENSCHAPPEN.</b>	
Optimization and Evaluation of Reduction-Aeration/Amalgamation for the Analysis of Mercury in Drinking-Water by Cold-Vapour Atomic Absorption Spectrometry (CVAAS), W85-06057	1811 5A
<b>GHENT RIJKSUNIVERSITEIT (BELGIUM). LAB. VOOR MORFOLOGIE AND SYSTEMATIEK.</b>	
Influence of Pollution on the Harpacticoid Copepods of Two North Sea Estuaries, W85-00795	1802 5C
Water Stress Induction Using Polyethylene Glycol in Nutrient Film Technique. Effects of the Photosynthetic Parameters of three Tomato Species and one Hybrid, W85-03838	1808 2I
<b>GHENT RIJKSUNIVERSITEIT (BELGIUM). LAB. VOOR ORGANISCHE CHEMIE.</b>	
CG-MS Identification of Odorous Volatiles in Wastewater, W85-07119	1812 5A
<b>GIBB (ALEXANDER) AND PARTNERS, LONDON (ENGLAND).</b>	
Free Jet Scour Below Dams and Flip Buckets, W85-05781	1810 8B
<b>GIESSEN UNIV. (GERMANY, F.R.) EDERSEE ECOLOGICAL RESEARCH STATION.</b>	
Distribution of Macrophytes and Microphytes in Hard Water of the Eder Reservoir Inflents (Die Verbreitung von Makrophyten und Mikrophyten in Hartwasser-Zuflüssen des Ederstausees), W85-02895	1806 2H
<b>GIESSEN UNIV. (GERMANY, F.R.) INST. FUER MIKROBIOLOGIE UND LANDES KULTUR.</b>	
Pollution of Two Streams in a Rural Region - A Comparison by Investigations of Several Years (Vergleich der Belastung zweier Bäche im Landlichen Raum Anhand Mehrjähriger Untersuchungen), W85-07025	1812 5B
<b>GIFU PREFECTURE RESEARCH INST. FOR ENVIRONMENTAL POLLUTION, YABUTA (JAPAN).</b>	
Bioconcentration Potential of Polydimethylsiloxane (PDMS) Fluids by Fish, W85-02865	1806 5C
Adsorption and Desorption of Polydimethylsiloxane, PCBs, Cadmium Nitrate, Copper Sulfate, Nickel Sulfate and Zinc Nitrate by River Surface Sediments, W85-06432	1812 5B
<b>GILBERT ASSOCIATES, INC., READING, PA.</b>	
Textile Dyehouse Wastewater Treatment: A Case History, W85-05240	1810 5D
<b>GILBERT/COMMONWEALTH, INC., JACKSON, MI.</b>	
Waste Treatment in an Automotive Component Complex, W85-05246	1810 5D
<b>GILBERT/COMMONWEALTH, READING, PA.</b>	
Industrial Wastewater Treatment with Water Reuse at a Coal-Fired Generating Station, W85-02579	1805 5D
<b>GKN HAYWARD BAKER CO., ODEONTON, MD.</b>	
Grouting Rehabs Earth Dam, W85-02728	1806 8A
<b>GKSS - FORSCHUNGSZENTRUM GEESTHACHT G.M.B.H., GEESTHACHT-TESPERHUEDE (GERMANY, F.R.)</b>	
Observations of the Suspended Matter Distribution Dynamics in the Elbe Estuary from Time Series Aerial Photographs, W85-06885	1812 2L
<b>GKSS - FORSCHUNGSZENTRUM GEESTHACHT G.M.B.H., GEESTHACHT-TESPERHUEDE (GERMANY, F.R.) INST. FUER WERKSTOFFTECHNOLOGIE UND CHEMIE.</b>	
Determination of Cl-, NO <sub>3</sub> - and SO <sub>4</sub> <sup>2-</sup> in Pore Waters of Sediments, W85-06756	1812 2K
<b>GLASGOW UNIV. (SCOTLAND). DEPT. OF CHEMISTRY.</b>	
Radioactinium and 210Pb in Clyde Sea Loch Sediments, W85-00659	1802 5B
<b>GLASGOW UNIV. (SCOTLAND). DEPT. OF MICROBIOLOGY.</b>	
Without Water the Work of Death Would be Incomplete, W85-06800	1812 2K
<b>GOETEBORG REGIONAL SEWERAGE CO. (SWEDEN).</b>	
Beneficial Use of Sewage Sludge in the Gothenburg Region, Sweden, W85-04003	1808 5E
<b>GOETEBORG UNIV. (SWEDEN). DEPT. OF ANALYTICAL AND MARINE CHEMISTRY.</b>	
Sources of Alkalinity in Lake Miklavatn, North Iceland, W85-01586	1803 2H
<b>GOETEBORG UNIV. (SWEDEN). DEPT. OF BOTANY.</b>	
Species-Dependent Variation in Algal Sensitivity to Chemical Compounds, W85-02698	1806 5A
<b>GOETEBORG UNIV. (SWEDEN). DEPT. OF ZOOLOGY.</b>	
Acidification of Lakes: Effects on Waterbirds in Sweden, W85-03200	1806 5C
<b>GOETEBORG UNIV. (SWEDEN). DEPT. OF ZOO PHYSIOLOGY.</b>	
Biochemical and Hematological Studies on Perch, <i>Perca fluviatilis</i> , from the Cadmium-Contaminated River Eman, W85-00272	1801 5C
Long-Term Sublethal Physiological Effects on Rainbow Trout, <i>Salmo gairdneri</i> , during Exposure to Cadmium and after Subsequent Recovery, W85-00881	1802 5C
Acute Toxicity of Chromate, DDT, PCP, TPBS, and Zinc to <i>Daphnia magna</i> Cultured in Hard and Soft Water, W85-01092	1802 5C
Effect of pH on Pentachlorophenol Toxicity to Embryos and Larvae of Zebrafish ( <i>Brachydanio rerio</i> ), W85-02971	1806 5C
Effects of Lead on delta-Aminolevulinic Acid Dehydratase Activity, Growth, Hemoglobin Content, Reproduction in <i>Daphnia magna</i> , W85-06745	1812 5C
<b>GOETTINGEN UNIV. (GERMANY, F.R.). ABT. BODENKUNDE UND WALDERNAHRUNG.</b>	
Chemical State of Forest Springs in the Kaufunger Wald (Chemischer Zustand von Quellen im Kaufunger Wald), W85-06444	1812 2H
<b>GOETTINGEN UNIV. (GERMANY, F.R.). SEDIMENTPETROGRAPHIC INST.</b>	
Kinetic Factors of CaCO <sub>3</sub> -Precipitation and the Partitioning of 12C and 13C. Studies at the Waterfalls of Guterstein and Urach (Schwabische Alb) (Kinetische Faktoren der CaCO <sub>3</sub> -Abscheidung und der Fraktionierung von 12C und 13C. Untersuchungen an den Wasserfällen von Guterstein und Urach (Schwabische Alb)), W85-01662	1804 1B
<b>GOLD KIST, INC., ATLANTA, GA.</b>	
Effect of Low Dissolved Oxygen Concentration on Effluent Turbidity, W85-01653	1804 5D
<b>GOLDER ASSOCIATES, ATLANTA, GA.</b>	
Analysis of Underdrain for Waste Disposal Leachate, W85-05372	1810 5E
Geohydrologic Modelling for Industrial Waste Disposal Site Evaluation, W85-05379	1810 5B
Case Study of Design Procedures for a Land Treatment of Wastewater System, Dalton, Georgia, W85-05393	1810 5D
<b>GOLDER ASSOCIATES, INC., BELLEVUE, WA.</b>	
Long-Term Prestress in Concrete-Lined Pressure Tunnels, W85-04414	1809 8F
<b>GOLDSTEIN (SEYMOUR R.), BALTIMORE, MD.</b>	
United States v. Oswego Barge Corporation, W85-02177	1805 5E
<b>GORAKHPUR UNIV. (INDIA). DEPT. OF ZOOLOGY.</b>	
Insecticide Toxicity to <i>Macrobrachium lamarrei</i> (H. Milne Edwards) (Decapoda, Palaemonidae), W85-02235	1805 5C
Toxicity of Copper Sulphate and Zinc Sulphate to <i>Macrobrachium lamarrei</i> (H. Milne Edwards) (Decapoda, Palaemonidae), W85-03513	1807 5C
Nickel Induced Hyperglycemia in the Freshwater Fish, <i>Colisa fasciatus</i> , W85-05693	1810 5C
Mercuric Chloride Intoxication in Freshwater Prawn, II; Effect on Phosphatases Activity, W85-06016	1811 5C
Acute Toxicity of Carbamide and its Long Term Effects on the Growth of Fingerlings of a Tropical Fresh Water Teleost, <i>Colisa fasciatus</i> (Bloch and Sch.), W85-06658	1812 5C

## ORGANIZATIONAL INDEX

### **GORE AND STORRIE LTD., TORONTO (ONTARIO).**

**GOVERNMENT POST GRADUATE COLL., CHIhindwara (INDIA).**  
Primary Production and Diurnal Variation in a Tropical Fish Pond,  
W85-04852 1809 5C

**GOVERNMENT OF THE NATION, YEKATERINBURG (RUSSIA).**  
Use of Bacteriological Indicators for Swimming Water Quality,  
W85-04765 1809 5A

**GOVERNMENT OF THE NATION, YEKATERINBURG (RUSSIA).**  
**WATER RESOURCES DIV.**  
Mixing Zone Studies in the Grand River Basin,  
W85-01710 1804 5B

Water Quality Prediction in Mixing Zones of Rivers,  
W85-02275 1805 5B

Impact of Proposed Glengowan Dam Flow Augmentation on Thames River Water Quality,  
W85-04044 1808 6G

**GOVERNMENT INDUSTRIAL RESEARCH INST., CHUGOKU, KURE (JAPAN).**  
Longitudinal Dispersion of Matter due to the Shear Effect of Steady and Oscillatory Currents,  
W85-05469 1810 8D

**GOVERNMENT INDUSTRIAL RESEARCH INST., KYUSHU, TOSU (JAPAN).**  
Sedimentation Rates and Heavy Metal Pollution of Sediments in the Seto Inland Sea, Part 3.  
Hiuchi-Nada, W85-05687 1810 5B

**GOVERNMENT INDUSTRIAL RESEARCH INST., OSAKA, IKEDA (JAPAN).**  
Study on Organic Pollution Parameters for Dyes and Dyeing Auxiliaries,  
W85-03746 1807 5C

Ion-Chromatographic Determination of Divalent Metal Ions (Co, Ni, Cu, Zn, Cd) Using EDTA as Complexing Agent,  
W85-05104 1810 5A

**GOVERNMENT INDUSTRIAL RESEARCH INST., TOSU (JAPAN).**  
Sedimentation Rates and Heavy Metal Pollution of Sediments in the Seto Inland Sea; Part 2.  
Hiroshima Bay, W85-01497 1803 5C

Turbid Bottom Water Layer and Bottom Sediment in the Seto Inland Sea,  
W85-02530 1805 2J

**GOVERNMENT OF BIHAR, PATNA (INDIA).**  
Role of Watershed Management in Water Resources Development Planning - Need for Integrated Approach to Development of Catchment and Command of Irrigation Projects,  
W85-04441 1809 6B

**GOVERNMENT OF THE NORTHWEST TERRITORIES, YELLOKNIFE.**  
Statistical Considerations in the Evaluation of Chronic Aquatic Toxicity Studies,  
W85-03971 1808 5A

**GOVERNMENT OF THE NORTHWEST TERRITORIES, YELLOKNIFE. TOWN PLANNING AND LANDS DIV.**  
Acceptance of Treated Water by Northern Community Residents,  
W85-04921 1809 6D

**GOVERNMENT OF THE NORTHWEST TERRITORIES, YELLOKNIFE. WATER AND SANITATION SECTION.**  
Status of Water and Sanitation Facilities in the Northwest Territories,  
W85-04238 1808 6B

Case Study, Potable Water Reservoir, Tuk-toyakut, Northwest Territories,  
W85-04927 1809 6A

**GOVERNMENT POST GRADUATE COLL., CHIhindwara (INDIA).**  
Primary Production and Diurnal Variation in a Tropical Fish Pond,  
W85-04852 1809 5C

**GRAND RIVER CONSERVATION AUTHORITY, CAMBRIDGE (ONTARIO).**  
Floodplain Policy and Practice in the Credit River Watershed, Ontario,  
W85-04587 1809 6F

**GRANDE DIXENCE SOCIETE ANONYME, SION (SWITZERLAND).**  
Findelen Glacier: Rapid Advance and Construction of a New Subglacial Water Catchment (Glacier de Findelen; Avance Rapide et Construction d'un Nouveau Captage Sous-glaciaire),  
W85-05019 1810 2C

**GRASSLANDS RESEARCH INST., HURLEY (ENGLAND).**  
Nitrate Leaching from Grassland,  
W85-02404 1805 5G

**GRAZ UNIV. (AUSTRIA). INST. FUER ZOOLOGIE.**

Faunistic Investigations of the Hyporheic Interstitial of the River Mur (Styria, Austria) (Faunistische Untersuchungen im hyporheischen Interstitial des Flusses Mur (Steiermark, Österreich)),  
W85-03126 1806 5C

**GREATER LONDON COUNCIL (ENGLAND). ENVIRONMENTAL SCIENCES DIV.**

Cadmium in Freshwaters: Concentrations and Chemistry,  
W85-03684 1807 2K

**GREELEY AND HANSEN, CHICAGO, IL.**

Pilot Study for the Removal of Priority Pollutants by the PACT Process,  
W85-05425 1810 5D

**GREENLAND TECHNICAL ORGANIZATION, COPENHAGEN (DENMARK).**  
Hydrological Data-Model Work in Greenland,  
W85-06639 1812 2A

**GRIFFITH UNIV., NATHAN (AUSTRALIA). SCHOOL OF AUSTRALIAN ENVIRONMENTAL STUDIES.**

Optimal Prediction of Saturation and Wetting Fronts during Trickle Irrigation,  
W85-00751 1802 2G

Oxygen Budget for an Urban Estuary,  
W85-00777 1802 2L

Factors Influencing Concentrations of Polychlorinated Biphenyls in Organisms from an Estuarine Ecosystem,  
W85-00787 1802 5B

Water and Air Movement in Soils: An Application of Brutsaert's and Optimization Techniques,  
W85-03094 1806 2G

Flood Frequency Characteristics of Some Arizona Watersheds,  
W85-03142 1806 2E

Similarity and First-Integral Solutions for Air and Water Diffusion in Soils and Comparison with Optimal Results,  
W85-04343 1808 2G

Theory of Solute Transport in Soils from the Method of Characteristics,  
W85-05937 1811 2G

Comparative Bases of Industry Pollution Abatement and Commercial Innovation: Implications for Water Resources Management,  
W85-06243 1812 5G

Flux and Water Content Relation at the Soil Surface,  
W85-06538 1812 2G

Interpretation of Leaching under Multiple Fertilizer Applications,  
W85-06564 1812 5B

Modelling Evapotranspiration: An Approach to Heterogeneous Communities,  
W85-06676 1812 2D

**GROMBACH CONSULTING ENGINEERS, ZURICH (SWITZERLAND).**  
Practical Introduction of the Remote Control Systems and Process Control Facilities,  
W85-02006 1804 6A

**GRONINGEN RIJKSUNIVERSITEIT (NETHERLANDS). BIOLOGICAL RESEARCH EMS-DOLLART ESTUARY.**

Ecology of Meiofauna in an Organically Polluted Estuarine Mudflat,  
W85-04676 1809 2L

**GRONINGEN RIJKSUNIVERSITEIT (NETHERLANDS). DEPT. OF MICROBIOLOGY.**  
Utility of Organic Matter in the Ems-Dollar Estuary,  
W85-01625 1803 2L

**GROUPE MIXTE EXPLOITATION BRETAGNE ELECTRICITE DE FRANCE.**

Twenty Years After: An Experiment in Tidal Power (Vingt ans apres La Rance, une Experience Maremotrice),  
W85-05544 1810 8A

**GUAM UNIV., AGANA. MARINE LAB.**  
Terrestrial Runoff as a Cause of Outbreaks of Acanthaster planci (Echinodermata: Asterioidea),  
W85-01893 1804 5C

**GUAM UNIV., AGANA. WATER AND ENERGY RESEARCH INST. OF THE WESTERN PACIFIC.**

Feasibility Study of Developing Valley-Fill Aquifers for Village Water Supplies in Southern Guam,  
W85-02026 1804 2F

Diagenesis and Pore-Space Evolution within Recent and Pleistocene Carbonate Units of Orote Peninsula, Guam,  
W85-02027 1804 2F

Comparision of Water Catchment and Storage Systems in Two Micronesian Atoll Communities: Laura and Nama,  
W85-02028 1804 6D

Hydrogeologic Investigation of Agana Swamp Northern Guam,  
W85-02029 1804 2F

**GUELPH UNIV. (ONTARIO). DEPT. OF BOTANY AND GENETICS.**  
Quantifying a Within-Lake Gradient of Wave Energy in Gilliland Lake, Nova Scotia,  
W85-00950 1802 2H

Quantifying Within-Lake Gradients of Wave Energy: Interrelationships of Wave Energy, Substrate Particle Size and Shoreline Plants in Axe Lake, Ontario,  
W85-01079 1802 2H

Aquatic Macrophyte Vegetation of an Isolated Island Lake Adjacent to Lake Nipigon, Ontario: A Comparative Study After a Fifty-six Year Interval,  
W85-04661 1809 2H

## ORGANIZATIONAL INDEX

### HANGZHOU REGIONAL CENTER FOR SMALL HYDROPOWER (CHINA).

<b>GUELPH UNIV. (ONTARIO). DEPT. OF ECONOMICS.</b>	Effects of Land Drainage on Stream Flow, W85-04583	1809 4C	<b>HAMAMATSU UNIV. (JAPAN). DEPT. OF CHEMISTRY.</b>
Equity and Equivalence Aspects of Effluent and Output Taxes, W85-06559			Gas Chromatographic Determination of Hydrogen Sulphide in Anoxic Waters, W85-01151
1812 6C			1803 5A
<b>GUELPH UNIV. (ONTARIO). DEPT. OF ENVIRONMENTAL BIOLOGY.</b>	<b>GULF COAST WASTE DISPOSAL AUTHORITY, HOUSTON, TX.</b>		<b>HAMBURG UNIV. (GERMANY, F.R.). INST. FUER ALLGEMEINE BOTANIK.</b>
Effect of Methylene Chloride on Respiration and Electron Transport System (ETS) Activity in Freshwater Sediment, W85-04475	Gulf Coast Waste Disposal Authority: A Regional Approach to Water Quality Management, W85-01422	1803 5G	Effects of Various Organic Chemicals on the Regreening of Red Colored Chlorella zofingiensis, W85-05814
1809 5C			1810 5A
Dissipation of Permethrin in Limnocrolls, W85-04838	<b>GUTTERIDGE, HASKINS AND DAVEY, MELBOURNE (AUSTRALIA).</b>		<b>HAMBURG UNIV. (GERMANY, F.R.). INST. FUER ANORGANISCHE UND ANGEWANDTE CHEMIE.</b>
1809 5B	Aspects of Water and Sewage Treatment in Australia, W85-05514	1810 5F	Results of an Interlaboratory Test for Heavy Metals in Elbe Water (Ergebnisse einer Ringanalyse von Elbwasser auf Schwermetalle), W85-01607
Triadimefon Reduces Transpiration and Increase Yield in Water Stressed Plants, W85-06104	<b>HACKENSACK WATER CO., HARRINGTON PARK, NJ.</b>		1803 5A
1811 2I	Developing Water Utility Cost Estimates Incorporating Spatial Factors, W85-06948	1812 6C	<b>HAMBURG UNIV. (GERMANY, F.R.). INST. FUER HYDROBIOLOGIE UND FISCHEREIWISSENSCHAFT.</b>
<b>GUELPH UNIV. (ONTARIO). DEPT. OF LAND RESOURCE SCIENCE.</b>	<b>HADASSAH MEDICAL SCHOOL, JERUSALEM (ISRAEL). ENVIRONMENTAL HEALTH LAB.</b>		Water Quality and Stocking Density as Stressors of Channel Catfish ( <i>Ictalurus punctatus</i> Raf.), W85-00234
Morphology and Recent Sediments of the Lower Anastomosing Reaches of the Attawapiskat River, James Bay, Ontario, Canada, W85-01734	Simultaneous Concentration of Four Enteroviruses from Tap, Waste, and Natural Waters, W85-02137	1804 5A	1801 3F
1804 2J			Effects of Dike Construction on the Wetland Ecosystem Along the Freshwater Section of the Elbe Estuary, W85-03120
Development and Validation of a Numerical Model Simulating Evaporation from Short Cores, W85-02866	Reactions of Chlorine Dioxide With Aquatic Organic Materials and Their Health Effects, W85-02904	1806 5C	1806 6G
1806 2G			Oxygen Production in a Bay Within the Freshwater Section of the Elbe Estuary. An Investigation of the Muhlenberger Loch in Hamburg (Die Sauerstoffproduktion einer Bucht im Süsswasserbereich des Elbe-Aestuaries Untersuchungen im 'Muhlenberger Loch' in Hamburg), W85-03121
Soil Survey Interpretations from Water Retention Data: I. Development and Validation of a Water Retention Model, W85-03963	Comparison of Current Methods of Poliovirus Concentration from Tap Water, W85-04492	1809 5F	1806 6G
1808 2G			Relationships Between Carbon and Cadmium Uptake in <i>Mytilus edulis</i> , W85-06521
Soil Survey Interpretations from Water Retention Data: II. Assessment of Soil Capability Ratings and Crop Performance Indices, W85-03964	Effects of Humic Materials on Virus Recovery from Water, W85-07131	1812 5A	1812 5C
1808 2G			Bioaccumulation and Partitioning of Cadmium within the Freshwater Mussel <i>Dreissena polymorpha</i> Pallas, W85-06884
Solute Travel Times During Trickle Irrigation, W85-03990	<b>HADERA ASSOCIATION OF TOWNS FOR ENVIRONMENTAL PROTECTION (ISRAEL).</b>		1812 5B
1808 2K	Rainwater pH in the Vicinity of Hadera Power Plant, Israel During the Winter Season of 1981-1982, W85-03597	1807 5A	<b>HAMBURG UNIV. (GERMANY, F.R.). INST. FUER ORGANISCHE CHEMIE UND BIOCHEMIE.</b>
Effect of Cation Exchange on Calculated Hydrodynamic Dispersion Coefficients, W85-05183	<b>HAIFA UNIV. (ISRAEL).</b>		Quantification of Volatile Sulfur Compounds Related to the Corrosion of Concrete Sewers, W85-01128
1810 2G	Water Resource Planning and Development in the Northern Jordan Valley, W85-03701	1807 6B	1803 5C
Constant Head Well Permeameter: Effect of Unsaturated Flow, W85-06208	Economic Aspects in the Investigation of Ground-Water Contamination Episodes, W85-05840	1810 5C	<b>HAMBURG UNIV. (GERMANY, F.R.). INST. OF GEOLOGY AND PALEONTOLOGY.</b>
1812 2G			Monitoring Carbon in World Rivers, W85-03654
Land Disposal of Sewage Sludge, Vol VIII: April 1, 1979 - March 31, 1980, W85-06991	<b>HAIFA UNIV. (ISRAEL). DEPT. OF ECONOMICS.</b>		1807 5B
1812 5E	Anatomy of a Groundwater Contamination Episode, W85-07090	1812 5B	<b>HAMILTON COLL., CLINTON, NY. DEPT. OF BIOLOGY.</b>
<b>GUELPH UNIV. (ONTARIO). DEPT. OF ZOOLOGY.</b>	<b>HAIFA UNIV. (ISRAEL). DEPT. OF GEOGRAPHY.</b>		Toxicity of the Herbicides Endothall and Diquat to Benthic Crustacea, W85-02778
Mercury Uptake by Lake Trout, <i>Salvelinus namaycush</i> , Relative to Age, Growth, and Diet in Tadenc Lake with Comparative Data from Other PreCambrian Shield Lakes, W85-00885	Measurement of Fluvial Sediment Transport Compared with Lacustrine Sedimentation Rates: the Flow of the River Jordan into Lake Kinneret, W85-00691	1802 2J	1806 5C
1802 5C			<b>HAMPTON INST., VA. CENTER FOR MARINE AND COASTAL ENVIRONMENTAL STUDIES.</b>
Mollusca of Six Low-Alkalinity Lakes in Ontario, W85-00894	<b>HAISTE INTERNATIONAL LTD., LEEDS (ENGLAND).</b>		Selective Effects of Phytoplankton Entrainment at the Surry Power Plant, James River, Virginia, W85-00987
1802 2H	Standards for Waters and Industrial Effluents, W85-01404	1803 5D	1802 5C
Proximate Composition and Organochlorine and Heavy Metal Contamination of Eggs from Lake Ontario, Lake Erie and Lake Michigan Coho Salmon ( <i>Oncorhynchus kisutch</i> Walbaum) in Relation to Egg Survival, W85-06436	<b>HAJDU-BIHAR COUNTY WATER CANALIZATION WORKS, DEBRECEN (HUNGARY).</b>		Oligohaline Benthic Invertebrate Communities at Two Chesapeake Bay Power Plants, W85-02994
1812 5C	Detection of Elementary Sulphur in Freshwater Sediments, W85-02746	1806 5A	1806 5C
<b>GUELPH UNIV. (ONTARIO). SCHOOL OF AGRICULTURAL ECONOMICS AND EXTENSION EDUCATION.</b>	<b>HALCROW (WILLIAM) AND PARTNERS, COLOMBO (SRI LANKA).</b>		<b>HANGZHOU REGIONAL CENTER FOR SMALL HYDROPOWER (CHINA).</b>
Evaluating Subsurface Drainage Benefit Estimation from Short-Term Cross-Section Data, W85-06077	Sri Lanka's Kotmale Hydro Project, W85-05818	1810 8A	Medium and Small Masonry Arch Dams in China, W85-04950
1811 4A			1809 8A
<b>GUELPH UNIV. (ONTARIO). SCHOOL OF ENGINEERING.</b>			
Corrugated Pipe Flow Rate from Pipe Geometry, W85-01514			
1803 8B			

## ORGANIZATIONAL INDEX

### HANOVER UNIV. (GERMANY, F.R.). INST. FUER BODENKUNDE.

HANOVER UNIV. (GERMANY, F.R.) INST.  
FUER BODENKUNDE.  
Leaching of Soluble Salt During Infiltration and  
Redistribution,  
W85-05163 1810 2G

HANOVER UNIV. (GERMANY, F.R.) INST.  
FUER METEOROLOGIE UND  
KLIMATOLOGIE.  
Rainfall Fluctuations in India and Sri Lanka and  
Large-Scale Rainfall Anomalies,  
W85-05093 1810 2B

HANOVER UNIV. (GERMANY, F.R.) INST.  
FUER SIEDLUNGSWASSERWIRTSCHAFT.  
Use of Biofiltration for Further Wastewater  
Treatment,  
W85-03649 1807 5D

Dry Bed Filtration as a Second Biological Stage  
for the City of Mannheim (1,200,000 PE),  
W85-03650 1807 5D

HANOVER UNIV. (GERMANY, F.R.) INST.  
FUER WASSERWIRTSCHAFT, HYDROLOGIE  
UND LANDWIRTSCHAFTLICHEN  
WASSERBAU.

Water Resources Development and Management  
Plans; Part 6: Quality Simulation (Bewirtschaftungsplane; Teil VI: Gutesimulation),  
W85-00966 1802 5B

Univariate Versus Multivariate Rainfall Statistics - Problems and Potentials,  
W85-01685 1804 2B

Effect of Spatial Rainfall Distribution on Sewer  
Flows,  
W85-01689 1804 2E

Real-Time Estimation and Forecasting of Spatially  
Distributed Areal Rainfall,  
W85-01700 1804 2B

### HANOVER UNIV. (GERMANY, F.R.). LEHRSTUHL FUER STROEMUNGSMECHANIK.

Two-Dimensional HN-Models of Flood Discharge in Rivers with Flood Plains, (Zweidimensionale HN-Modelle des Hochwasserabflusses in Flüssen mit Vorländern),  
W85-03449 1807 2E

### HARBOR BRANCH FOUNDATION, INC., FORT PIERCE, FL.

Effects of Stream Channelization on Exports of Nitrogen and Phosphorus from North Carolina Coastal Plain Watersheds,  
W85-00979 1802 6G

Use of a Simple Water Column Sampler to Monitor Chemical and Biological Conditions in Shallow Waters,  
W85-01239 1803 7B

### HARBOR BRANCH INST., FORT PIERCE, FL. CENTER FOR MARINE BIOTECHNOLOGY.

Acute Toxicity of EDB and Aldicarb to Young of Two Estuarine Fish Species,  
W85-01455 1803 5C

### HARBOR BRANCH INST., INC., FORT PIERCE, FL.

Influence of Salinity and Sulfate on the Toxicity of Chromium(VI) to the Estuarine Diatom *Thalassiosira pseudonana*,  
W85-04319 1808 5C

### HARGRAFT AND SONS LTD., TORONTO (ONTARIO).

Retrofitting Apartment Buildings To Reduce Costs and Water Demand,  
W85-04690 1809 3D

### HART (FRED C.) ASSOCIATES, INC., NEW YORK.

Long-Term Confidence in Ground Water Monitoring Systems,  
W85-03183 1806 7B

Application of Television Borehole Logging to Ground Water Monitoring Programs,  
W85-03190 1806 2F

### HARTWICK COLL., ONEONTA, NY. DEPT. OF BIOLOGY.

Factors Influencing Impingement of Fish by Lake Ontario Power Plants,  
W85-04713 1809 8I

### HARVARD LAW SCHOOL, CAMBRIDGE, MA.

Judicial Recourse against Foreign Air Polluters: A Case Study of Acid Rain in Europe,  
W85-06529 1812 6E

### HARVARD SCHOOL OF PUBLIC HEALTH, BOSTON, MA. INTERDISCIPLINARY PROGRAMS IN HEALTH.

Comparison of the Carcinogenic Risks from Fish vs. Groundwater Contamination by Organic Compounds,  
W85-02110 1804 5C

### HARYANA AGRICULTURAL UNIV., HISSAR (INDIA). DEPT. OF AGRONOMY.

Effect of Water Stress at Three Growth Stages on the Yield and Water-Use Efficiency of Dwarf Wheat,  
W85-05933 1811 3F

### HARZA ENGINEERING CO., CHICAGO, IL.

Buoyant Contaminant Plumes in Groundwater,  
W85-02660 1805 5B

Estimation of Probable Maximum Precipitation: Case Studies,  
W85-03012 1806 2B

Removal of Chelated Nickel from Wastewaters,  
W85-05430 1810 5D

### HARZWASSERWERKE DES LANDES NIEDERSACHSEN, HILDESHEIM (GERMANY, F.R.).

Environmental Influences of Dams Constructed During the Past 300 Years in the Western 'Harz' (Die Umwelteinflüsse von 300 Jahren Talsperrenbau im Westharz),  
W85-03250 1807 6G

### HAWAII INST. OF GEOPHYSICS, HONOLULU. PLANETARY GEOSCIENCES DIV.

Mississippi River Outflow Patterns Seen by Seasat Radar,  
W85-06519 1812 2L

### HAWAII UNIV. AT HILO. SOCIAL SCIENCES DIV.

Centralized Decisionmaking in the Administration of Groundwater Rights: The Experience of Arizona, California and New Mexico and Suggestions for the Future,  
W85-04191 1808 4B

### HAWAII UNIV. AT MANOA, HONOLULU. DEPT. OF AGRICULTURAL ENGINEERING.

Sludge Recycling for Methane Fermentation Processing of Swine Wastewater,  
W85-05258 1810 5D

### HAWAII UNIV. AT MANOA, HONOLULU. DEPT. OF CIVIL ENGINEERING.

2-D Infiltration Equations for Furrow Irrigation,  
W85-01512 1803 2G

### HAWAII UNIV. AT MANOA, HONOLULU. WATER RESOURCES RESEARCH CENTER.

Measured Evaporation in High Rainfall Areas, Leeward Ko'Olau Range, Oahu, Hawaii,  
W85-06345 1812 2D

### HAWAII UNIV., HONOLULU.

Macroporosity to Characterize Spatial Variability of Hydraulic Conductivity and Effects of Land Management,  
W85-02317 1805 2G

### HAWAII UNIV., HONOLULU. DEPT. OF AGRICULTURAL AND RESOURCE ECONOMICS.

Impact on Groundwater Resources of Conversion from Furrow to Drip Irrigation,  
W85-02982 1806 3F

### HAWAII UNIV., HONOLULU. DEPT. OF AGRICULTURAL ENGINEERING.

Integrating Anaerobic Digestion and Algal-Biomass Treatment Processes for Swine Wastewater,  
W85-05410 1810 5D

Design of Drip Irrigation Lateral Length on Uniform Slopes,  
W85-05929 1811 3F

### HAWAII UNIV., HONOLULU. DEPT. OF METEOROLOGY.

Moisture Budget During the 1978-79 Southern Hemisphere Summer Monsoon,  
W85-04023 1808 2B

### HEALTH AND WELFARE CANADA, OTTAWA (ONTARIO). BUREAU OF MICROBIAL HAZARDS.

Improved Recovery of Fecal Coliforms from the Ottawa River by Membrane Filters in the Presence of Food Debris,  
W85-05741 1810 5A

### HEALTH AND WELFARE CANADA, OTTAWA (ONTARIO). ENVIRONMENTAL HEALTH CENTRE.

Arsenic in Nova Scotian Groundwater,  
W85-03032 1806 5A

### HEALTH AND WELFARE CANADA, OTTAWA (ONTARIO). HEALTH PROTECTION BRANCH.

Incidence and Levels of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Lake Ontario Commercial Fish,  
W85-02349 1805 5B

Survey of the Use of Activated Carbon Water Filters in Canadian Homes,  
W85-06102 1811 5F

### HEALTH EFFECTS RESEARCH LAB., CINCINNATI, OH.

Waterborne Outbreak Control: Which Disinfectant,  
W85-01198 1803 5F

Subchronic Toxicity of Chlorine Dioxide and Related Compounds in Drinking Water in the Nonhuman Primate,  
W85-01204 1803 5F

Use of Biological Assay Systems to Assess the Relative Carcinogenic Hazards of Disinfection By-Products,  
W85-01218 1803 5F

Identification and Measurement of Components in Gasoline, Kerosene, and No. 2 Fuel Oil that Partition into the Aqueous Phase after Mixing,  
W85-02199 1805 5B

Gas Chromatography/Mass Spectroscopy Analysis of Mutagenic Extracts of Aqueous Chlorinated Humic Acid. A Comparison of the Byproducts to Drinking Water Contaminants,  
W85-02345 1805 5B

Asbestos in Water Supplies of the United States,  
W85-02703 1806 5F

Copiphages as Indicators of Enteroviruses,  
W85-02936 1806 5A

Influence of the Time of Acidification after Sample Collection on the Preservation of Drinking Water for Lead Determination,  
W85-07088 1812 5A

## ORGANIZATIONAL INDEX

### HIROSHIMA PREFECTURE FISHERIES EXPERIMENT STATION, ONDO (JAPAN).

<b>HEATH CONSULTANTS LTD., LONDON (ONTARIO).</b>				
Water Leakage Control and Sonic Detection, W85-04692	1809	3D		
<b>HEBREW UNIV., HERUSALEM (ISRAEL). DEPT. OF ZOOLOGY.</b>				
Distributional Patterns and Habitat Characteristics of Amphipoda (Crustacea) in the Inland Waters of Israel and Sinai, W85-00395	1801	2H		
<b>HEBREW UNIV., JERUSALEM (ISRAEL).</b>				
Anisotropy of Unsaturated Soils, W85-00753	1802	2G		
<b>HEBREW UNIV., REHOVOTH (ISRAEL). FACULTY OF AGRICULTURE.</b>				
Predictor-Corrector Method for Measurement of Hydraulic Conductivity and Membrane Conductance, W85-02870	1806	2G		
<b>HEIDELBERG COLL., TIFFIN, OH. WATER QUALITY LAB.</b>				
Benthic Macroinvertebrates as Indicators of Environmental Degradation in the Southern Nearshore Zone of the Central Basin of Lake Erie, W85-00926	1802	5A		
Regional Water Quality Impacts of Intensive Row-Crop Agriculture: A Lake Erie Basin Case Study, W85-05962	1811	5B		
<b>HEIDELBERG UNIV. (GERMANY, F.R.). INST. FUER SEDIMENTFORSCHUNG.</b>				
Reconnaissance Survey of the Mineralogy and Geochemistry of some New Zealand Lake and Nearshore Sediments, W85-00809	1802	2H		
<b>HEIDELBERG UNIV. (GERMANY, F.R.). INST. FUER UMWELTPHYSIK.</b>				
Implications of Slow Deep Water Renewal of Lake Koenigssee Derived from Combined Tritium-3-Helium Measurements, W85-06395	1812	2H		
<b>HELSINKI METROPOLITAN AREA WATER CO. (FINLAND).</b>				
World's Longest Tunnel, W85-02003	1804	8A		
<b>HELSINKI UNIV. (FINLAND). DEPT. OF BOTANY.</b>				
Mercury in Some Higher Aquatic Plants and Plankton in the Estuary of the River Kokemaanjoki, Southern Finland, W85-02845	1806	5B		
Phytoplankton in 151 Eastern Finnish Lakes: Species Composition and its Relations to the Water Chemistry, W85-04543	1809	2H		
Comparisons of Flooding Tolerance in Four Barley Cultivars ( <i>Hordeum vulgare</i> ) Grown in Finland, and in <i>Carex rostrata</i> , W85-05874	1811	2I		
<b>HELSINKI UNIV. (FINLAND). DEPT. OF LIMNOLOGY.</b>				
Effects of Environmental Changes on the Fisheries and Fish Stocks in the Archipelago Sea and the Finnish Part of the Gulf Och Bothnia, W85-02388	1805	5C		
Threshold Odour Concentrations of Odorous Algal Metabolites Occurring in Lake Water, W85-02389	1805	5F		
Uptake and Release of Environmentally Occurring Odorous Compounds by Fish, A Review, W85-03543	1807	5C		
<b>HELSINKI UNIV. (FINLAND). DEPT. OF MICROBIOLOGY.</b>				
Principles of Composting, W85-05206	1810	5E		
Fluidized Bed Technology in the Anaerobic Treatment of Forest Industry Wastewaters, W85-07006	1812	5D		
<b>HELSINKI UNIV. (FINLAND). DEPT. OF ZOOLOGY.</b>				
Gill Damage as a Determinant of Residual Oxygen Concentration in the Sealed Jar Test, W85-05015	1810	5A		
<b>HELSINKI UNIV., LAMMI (FINLAND). LAMMI BIOLOGICAL STATION.</b>				
Hypolimnetic Phosphorus Retrieval by Diel Vertical Migrations of Lake Phytoplankton, W85-02286	1805	2H		
Effect of Forest Amelioration on Diversity in an Ombrotrophic Bog, W85-02484	1805	6G		
Autumnal and Vernal Circulation of Small Forest Lakes in Southern Finland, W85-02607	1805	2H		
Diel Variation in Primary Production and the Vertical Distribution of Phytoplankton in a Polyhumic Lake, W85-03231	1807	2H		
Vertical Distribution of Primary Production and Phytoplankton in Two Small Lakes with Different Humus Concentration in Southern Finland, W85-05721	1810	2H		
Moisture Conditions in Hummocks and Hollows in Virgin and Drain Sites on the Raised Bog Laaviosuo, Southern Finland, W85-05873	1811	2H		
<b>HELSINKI UNIV. OF TECHNOLOGY, ESPOO (FINLAND). DEPT. OF FOREST PRODUCTS.</b>				
Anaerobic Wastewater Treatment Processes, W85-07004	1812	5D		
Treatment of Different Wastewaters from Pulp and Paper Industry in Methane Reactors, W85-07015	1812	5D		
<b>HELSINKI UNIV. OF TECHNOLOGY, ESPOO (FINLAND). LAB. OF PULPING TECHNOLOGY.</b>				
Wastewater Characteristics, W85-07001	1812	5D		
<b>HELSINKI UNIV. OF TECHNOLOGY, ESPOO (FINLAND). SYSTEMS THEORY LAB.</b>				
State Model for Infiltration, W85-06644	1812	2G		
<b>HELSINKI WATER DISTRICT (FINLAND).</b>				
Effects of Ammonium Effluents on Planktonic Primary Production and Decomposition in a Coastal Brackish Water Environment. I. Nutrient Balance of the Water Body and Effluent Tests, W85-01627	1803	5C		
Effects of Ammonium Effluents on Planktonic Primary Production and Decomposition in a Coastal Brackish Water Environment. II. Interrelations Between Abiotic and Biotic Components of the Planktonic Ecosystem, W85-01840	1804	5C		
<b>HENKEL K.G.A.A., DUESSELDORF (GERMANY, F.R.). DEPT. OF ECOLOGY.</b>				
Biodegradability Testing of Poorly Water Soluble Compounds, W85-01957	1804	5B		
Metabolites and Biodegradation Pathways of Fatty Alcohol Ethoxylates in Microbial Biocenoses of Sewage Treatment Plants, W85-05510	1810	5D		
<b>HERBERT H. LEHMAN COLL., BRONX, NY. DEPT. OF BIOLOGICAL SCIENCES.</b>				
Toxicological Response of the Alga <i>Anabaena flos-aquae</i> (Cyanophyceae) to Cadmium, W85-02197	1805	5C		
<b>HERCULES, INC., WILMINGTON, DE.</b>				
Removal of Organic Precursors by Permanganate Oxidation and Alum Coagulation, W85-06222	1812	5F		
Controlling Phosphate Based Water Treatment Programs, W85-06598	1812	5F		
<b>HEREFORD SIXTH FORM COLL. (ENGLAND).</b>				
Spatial Variations in Precipitation Chemistry over Natal, South Africa, W85-00213	1801	5B		
<b>HERIOT-WATT UNIV., EDINBURGH (SCOTLAND). DEPT. OF BREWING AND BIOLOGICAL SCIENCES.</b>				
BASIC Program for the Investigation of Species Diversity, W85-04513	1809	7C		
<b>HESSISCHE LANDESANSTALT FUER UMWELT, WIESBADEN (GERMANY, F.R.).</b>				
Main Results of a Project for Artificial Ground-Water Recharge from Secondary Treated Sewage in the Municipal Forest of the City of Langen (Lower Main Region) (Die wichtigsten Ergebnisse eines Projektes zur künstlichen Grundwasser-anreicherung mit weitergehend behandeltem Abwasser im Langener Stadtwald (Untermainregion)), W85-04809	1809	5D		
<b>HIDROBIOLOSKI ZAVOD, OHRIDA (YUGOSLAVIA).</b>				
Nitrogen Loading: Influence on Dissolved Inorganic Carbon in Natural Waters, W85-02623	1805	5C		
<b>HIDROELECTRICA ESPANOLA, MADRID.</b>				
Modular Equipment for the Automatic Control of Small Hydro Plants, W85-02679	1805	8A		
<b>HIMACHAL PRADESH UNIV., SHIMLA (INDIA). DEPT. OF CHEMISTRY.</b>				
Transport Studies of Multielectrolyte Solutions Across a Sintered Disc Impregnated with Cellulose Acetate, W85-05035	1810	3A		
<b>HIMACHAL PRADESH UNIV., SIMLA (INDIA). DEPT. OF BIOSCIENCES.</b>				
Chemical Composition of Aquatic Vegetation in Some Typical Wetlands of Kashmir, W85-06651	1812	2H		
<b>HIMEJI INST. OF TECH. (JAPAN). DEPT. OF APPLIED CHEMISTRY.</b>				
Preliminary Studies on Treatment of Chromium Tannery Waste Sludge by Anaerobic Digestion, W85-04251	1808	5D		
<b>HIROSAKI UNIV. (JAPAN). DEPT. OF EARTH SCIENCES.</b>				
Complexing Capacity of River Water (in Japanese), W85-00538	1802	2H		
<b>HIROSHIMA PREFECTURE FISHERIES EXPERIMENT STATION, ONDO (JAPAN).</b>				
Prediction of Red Tide Occurrence by Means of Discriminant Analysis (in Japanese), W85-04605	1809	5C		

## ORGANIZATIONAL INDEX

### HIROSHIMA UNIV. (JAPAN). FACULTY OF INTEGRATED ARTS AND SCIENCES.

#### HIROSHIMA UNIV. (JAPAN). FACULTY OF INTEGRATED ARTS AND SCIENCES.

Application of Reversed-Phase Liquid Chromatography to Dissolved Organic Matter in Estuarine Seawater, W85-07065 1812 5A

#### HIROSHIMA UNIV. (JAPAN). INST. OF ENVIRONMENTAL CHEMISTRY.

Simulation Study of Eutrophication in Hiroshima Bay, W85-06739 1812 2L

Effects of Environmental Gradients Concerning Water Qualities on the Structure of the Phytoplankton Community in the Coastal Sea, W85-06853 1812 2L

#### HIROSHIMA UNIV. (JAPAN). SCHOOL OF MEDICINE.

Tentative Assessment of Water Pollution by the Medaka Egg Stationing Method: Aerial Application of Fenitrothion Emulsion, W85-02726 1806 5A

Changes in the Sulfide Content of Bottom Muds in Going from River to Sea, W85-07149 1812 5B

#### HITACHI RESEARCH LAB. (JAPAN).

High-BOD Loading Treatment Using Large-Scale Deep Aeration Tanks, W85-02972 1806 5D

#### HOCHSCHULE DER BUNDESWEHR MUENCHEN, NEUBIBERG (GERMANY, F.R.). FACHBEREICH INFORMATIK.

Evaluation of the Polubarinova-Kochina Formula for the Dam Problem, W85-05803 1810 2F

#### HOCHSCHULE DER BUNDESWEHR MUENCHEN, NEUBIBERG (GERMANY, F.R.). INST. FUER HYDROMECHANIK UND HYDROLOGIE.

Stochastic Model of Suspended Solid Dispersion, W85-04395 1808 2J

#### HOCHSCHULE FUER ARCHITEKTUR UND BAUWESEN WEIMAR (GERMAN D.R.).

Biogas from Small Facilities (Biogas aus kleinen Anlagen), W85-03466 1807 5D

#### HOECHST A.G., FRANKFURT-AM-MAIN (GERMANY, F.R.).

About the Remain of Cationic Surfactants in Waste Water. Reaction of Cationic Surfactants with Bentonite (Uber den Verbleib von kationenaktiven Tensiden im Abwasser. Reaktion von kationenaktiven Tensiden mit Bentonit), W85-03413 1807 5D

Demands Placed on Processing Plants by Developments in Legislation for the Protection of Water (Anforderungen an verfahrenstechnische Anlagen durch die Weiterentwicklung der Gewasserschutz-Vorschriften), W85-05982 1811 6E

#### HOECHST A.G., FRANKFURT-AM-MAIN (GERMANY, F.R.). VERFAHRENSTECHNIK.

Preliminary Treatment of Chemical Wastewater by Means of Sedimentation and Pressure-Release Flotation (Vorklarung von Chemieabwasser durch Sedimentation und Entspannungsflotation), W85-05983 1811 5D

#### HOKKAIDO FISH HATCHERY, SAPPORO (JAPAN).

Relationship between Morphometric Features and Organic Matter Contents of Bottom Sediments at the Deepest Points of Lakes (in Japanese), W85-00534 1802 2H

#### HOKKAIDO UNIV., HAKODATE (JAPAN). FACULTY OF FISHERIES.

Behavior of Organically-Bound Iron in Lake Ohnuma, W85-00932 1802 2H

Behavior of Organically-Bound Iron in Seawater of Estuaries, W85-01913 1804 2L

#### HOKKAIDO UNIV., SAPPORO (JAPAN). DEPT. OF BIOSYSTEM CONSERVATION.

Ecological Studies of the Mobera-Yatsumi Marsh. Main Physical and Chemical Factors Controlling the Marsh Ecosystem, W85-02381 1805 2L

#### HOKKAIDO UNIV., SAPPORO (JAPAN). DEPT. OF GEOPHYSICS.

Studies of the Internal Wave in Small Lakes (II) - Effect of the Lake Basin Shape on the Internal Wave - (in Japanese), W85-05998 1811 2H

#### HOKKAIDO UNIV., SAPPORO (JAPAN). INST. OF LOW TEMPERATURE SCIENCE.

Separation of the Snowmelt Hydrograph by Stream Temperatures, W85-05538 1810 2E

#### HOKKAIDO UNIV., SAPPORO (JAPAN). LAB. OF EROSION CONTROL ENGINEERING.

Effect of Channel Alteration on Fish Habitat, W85-03507 1807 6G

#### HOKKAIDO UNIV., SAPPORO (JAPAN). LAB. OF FUNDAMENTAL RESEARCH.

Chemical Changes of Snow Cover by Melting, W85-00531 1802 2K

#### HOKKAIDO UNIV., SAPPORO (JAPAN). RESEARCH INST. OF NORTH PACIFIC FISHERIES.

Distribution of River Discharged Suspended Matter in Coastal Water (in Japanese), W85-03608 1807 2J

Seasonal Variation of Dissolved Organic Matter in Funka Bay, W85-06441 1812 2L

#### HOMESTAKE MINING CO., LEAD, SD.

Biological Treatment of Cyanidation Wastewaters, W85-05417 1810 5D

#### HONG KONG PUBLIC WORKS DEPT. GEOTECHNICAL CONTROL OFFICE.

Development of a Groundwater Recharge Model for Hong Kong, W85-00693 1802 2A

#### HONG KONG UNIV. DEPT. OF CIVIL ENGINEERING.

Numerical Solution of the Dispersion Equation Using a Variable Dispersion Coefficient; Method and Applications, W85-02828 1806 5B

Boundary Effects on a Submerged Jet Group, W85-02952 1806 8B

Line Momentum Source in Shallow Inviscid Fluid, W85-03038 1806 8B

#### HONG KONG UNIV. DEPT. OF ZOOLOGY.

Investigation of Physical and Biological Processing of Two Species of Leaf Litter in Tai Po Kau Forest Stream, New Territories, Hong Kong, W85-00867 1802 2H

Investigation into Some Physical and Biotic Effects of Flooding on Reservoir Mud Previously Subjected to a Period of Aerial Exposure, W85-01477 1803 2H

#### HOOGHEEMRAADSCHAP VAN RIJNLAND, LEIDEN (NETHERLANDS).

Epilimnetic Nutrient Loading by Metalimnetic Erosion and Resultant Algal Responses in Lake Waramaug, Connecticut, W85-02093 1804 2H

Application of Derivative Spectroscopy in Bioassays Estimating Algal Available Phosphate in Lake Sediments, W85-02615 1805 5A

#### HOUSTON DEPT. OF PUBLIC WORKS, TX. WASTEWATER DIV.

Improving the Performance of Houston's Southwest Wastewater Treatment Plant, U.S.A., W85-03653 1807 5D

#### HOUSTON UNIV., TX. DEPT. OF CIVIL ENGINEERING.

Modeling of Trace Organics Biotransformation in the Subsurface, W85-01531 1803 5B

History of the Attempted Federal Regulation Requiring GAC Adsorption for Water Treatment, W85-02399 1805 6E

#### HOWARD UNIV., WASHINGTON, DC.

Utilization of Satellite Snow-Cover Observations for Seasonal Streamflow Estimates in the Western Himalayas, W85-01233 1803 7B

Evaluating a Model of Snow Cover Area versus Runoff Against a Concurrent Flow Correlation Model in the Western Himalayas, W85-06643 1812 2E

#### HOWARD UNIV., WASHINGTON, DC. SCHOOL OF CIVIL ENGINEERING.

Trihalomethanes in Groundwater Systems, W85-06696 1812 5B

#### HUDSONIA LTD., ANNANDALE, NY.

Fishes of an Urban Stream; The Bronx River, New York, W85-00935 1802 2H

#### HULL UNIV. (ENGLAND).

Separation Zone at Open-Channel Junctions, W85-03778 1808 8B

#### HULL UNIV. (ENGLAND). DEPT. OF GEOGRAPHY.

Response to Precipitation of Headwater Streams in Humid Areas, W85-03089 1806 2E

#### HULL UNIV. (ENGLAND). DEPT. OF PLANT BIOLOGY.

Bacterioplankton in an Urban River: The Effects of a Metal-Bearing Tributary, W85-02912 1806 5C

Downstream Increase in the Abundance and Heterotrophic Activity of Suspended Bacteria in an Intermittent Calcareous Headstream, W85-03686 1807 2H

Plant Zonation and the Effects of the Spring-Neap Tidal Cycle on Soil Aeration in a Humber Salt Marsh, W85-06369 1812 2L

#### HULL UNIV. (ENGLAND). DEPT. OF ZOOLOGY.

Ecological Characterization of Different Types of Watercourses by the Multivariate Analysis of Ciliated Protozoa Populations, W85-00628 1802 2H

Temporal Changes in the Composition and Abundance of the Macro-Invertebrate Communities of the River Hull, W85-01371 1803 6G

## ORGANIZATIONAL INDEX

**ILLINOIS INST. OF TECH., CHICAGO. PRITZKER DEPT. OF ENVIRONMENTAL**

<b>HUMBOLDT STATE UNIV., ARCATA, CA. DEPT. OF ENVIRONMENTAL RESOURCES ENGINEERING.</b>	Flood-Runoff Forecasting with HEC1F, W85-06233	1812 2E	<b>IDAHO UNIV., MOSCOW. SCHOOL OF LAW. Reasonable Groundwater Pumping Levels Under the Appropriation Doctrine: Underlying Social Goals,</b>
Optimization Model for Ground-Water Planning, W85-01569	1803 6A		W85-01249
Monte Carlo Optimization for Reservoir Operation, W85-02659	1805 4A		1803 6E
<b>HUMPHREYS (HOWARD) AND SONS, LONDON (ENGLAND).</b>			<b>IEP, INC., WORTHINGTON, OH.</b>
Practical Aspects of Energy Saving in Wastewater Disposal, W85-04595	1809 5D		Comparison of Sampling Mechanisms Available for Small-Diameter Ground Water Monitoring Wells, W85-06834
<b>HUNTER DISTRICT WATER BOARD, NEWCASTLE (AUSTRALIA).</b>			1812 2F
Rainfall/Water-Table Level Relationship of an Unconfined Aquifer, W85-00359	1801 2F		<b>IFE UNIV. (NIGERIA). DEPT. OF AGRICULTURAL ENGINEERING.</b>
<b>HUNTINGTON COLL., IN. DEPT. OF BIOLOGY.</b>			Water Use-Yield Relations for Cowpea and Maize, W85-06281
Effect of Flooding on Small Mammal Populations at Salamonic Lake, W85-06848	1812 6G		1812 3F
<b>HYDRAULICS RESEARCH STATION, WALLINGFORD (ENGLAND).</b>			Irrigation and Agricultural Development: Some Conceptual and Empirical Considerations, W85-06604
Experimental Study of the Structure of a Freshwater-Saltwater Interfacial Mixing (Etude Experimentale du Melange a l'interface Eau-Saumure), W85-00387	1801 2L		1812 3F
Initiation of Sediment Transport in Gravel Streams, W85-01536	1803 2J		<b>IFE UNIV. (NIGERIA). DEPT. OF CIVIL ENGINEERING.</b>
Design Storm for a Tropical Location with Limited Data, W85-01678	1804 2B		Studies on a Selected Industrial Effluent and the Receiving Stream, W85-03027
<b>HYDRO-QUEBEC, MONTREAL. SERVICE HYDRAULIQUE.</b>			1806 5B
Flood Routing in Rivers by Transfer Function Identification, W85-00523	1802 2E		Studies on a Selected Industrial Effluent and the Receiving Stream, W85-05031
<b>HYDROART S.P.A., MILAN (ITALY).</b>			1810 5D
Physico-Chemical, Bacteriological and Biological Study of the Seymaz (Etude Physico-Chimique, Bacteriologique et Biologique de la Seymaz), W85-01555	1803 5C		<b>IFE UNIV. (NIGERIA). DEPT. OF GEOGRAPHY.</b>
Behaviour of Hydraulic Machines under Steady Oscillations, W85-02677	1805 8C		Runoff Response to Basin Parameters in Southwestern Nigeria, W85-01169
<b>HYDROCHEMICAL INST., ROSTOV-NA-DONU (USSR).</b>			1803 2E
Application of Mathematical Models to Large Aquatic Ecosystems, W85-02883	1806 2A		<b>IFE UNIV. (NIGERIA). DEPT. OF MICROBIOLOGY.</b>
<b>HYDROECO-SYSTEM RESEARCH GROUP, FORT COLLINS, CO.</b>			Human Waste Disposal and the Faecal Pollution of the River Niger Delta Waters, W85-03703
Soil Erosion Potential of Reclaimed Mined Lands, W85-03398	1807 2J		1807 5D
<b>HYDROLOGIC ENGINEERING CENTER, DAVIS, CA.</b>			Effects of a Sewage Lagoon Effluent on the Water Quality of the Receiving Stream, W85-05851
Probable Maximum Flood Estimation - Eastern United States, W85-01377	1803 2E		1811 5C
Output Increase from Existing Hydroelectric Plants, W85-03058	1806 4A		<b>IFREMER, BREST (FRANCE).</b>
Significance of Location in Computing Flood Damage, W85-04244	1808 6F		Hydrocarbons and Halogenated Hydrocarbons in Coastal Waters of the English Channel and the North Sea, W85-05862
			1811 5A
			<b>ILLINOIS INST. OF TECH., CHICAGO. ARMOUR COLL. OF ENGINEERING.</b>
			Metals Distributions in Activated Sludge Systems, W85-01737
			1804 5D
			<b>ILLINOIS INST. OF TECH., CHICAGO. DEPT. OF ENVIRONMENTAL ENGINEERING.</b>
			Distribution of Cadmium and Nickel in Activated Sludge Systems, W85-05428
			1810 5D
			<b>ILLINOIS INST. OF TECH., CHICAGO. PRITZKER DEPT. OF ENVIRONMENTAL ENGINEERING.</b>
			Kinetics of Microbial Inactivation by Chlorine - I; Review of Results in Demand-Free Systems, W85-02917
			1806 5D
			Kinetics of Microbial Inactivation by Chlorine - II; Kinetics in the Presence of Chlorine Demand, W85-02918
			1806 5D
			Removal of New Indicators by Coagulation and Filtration, W85-04833
			1809 5F
			Development and Validation of a Waste Strength Equalization Basin Design Technique, W85-05574
			1810 5D

## ORGANIZATIONAL INDEX

### ILLINOIS INST. OF TECH., CHICAGO. PRITZKER DEPT. OF ENVIRONMENTAL

Kinetic Limitations on the Selective Precipitation Treatment of Electronics Wastes, W85-05698	1810 5D	Research Agenda for Floods to Solve Policy Failure, W85-04243	1808 4A	<b>ILLINOIS UNIV. AT URBANA-CHAMPAIGN.</b> <b>DEPT. OF AGRONOMY.</b>
Field Observations on the Occurrence of New Indicators of Disinfection Efficiency, W85-06224	1812 5A	Guide to the Selection of Materials for Monitoring Well Well Construction and Ground-Water Sampling, W85-05350	1810 7B	Element Accumulation and Release by Macrophytes in a Wetland Stream, W85-06625
<b>ILLINOIS NATURAL HISTORY SURVEY,</b> <b>CHAMPAIGN.</b> Age and Growth of Largemouth Bass in a Thermally Altered Reservoir, as Determined from Otoliths, W85-02376	1805 5C	Evaluation of Wastes from the East St. Louis Water Treatment Plant and Their Impact on the Mississippi River, W85-06343	1812 5C	1812 2H
<b>ILLINOIS STATE ENVIRONMENTAL PROTECTION AGENCY, SPRINGFIELD, DIV. OF WATER POLLUTION CONTROL.</b> Municipal Compliance - Another View, W85-02571	1805 6E	Aeration-Destratification of Lake Eureka: Second Year Operation, W85-06344	1812 5G	<b>ILLINOIS UNIV. AT URBANA-CHAMPAIGN.</b> <b>DEPT. OF CIVIL ENGINEERING.</b>
Evaluation of a Community-Based Index Using Benthic Indicator-Organisms for Classifying Stream Quality, W85-07046	1812 5A	Climate Fluctuations in Illinois: 1901-1980, W85-06346	1812 2B	Mixing Effects in UV Disinfection, W85-01659
<b>ILLINOIS STATE GEOLOGICAL SURVEY DIV., CHAMPAIGN.</b> Three-Dimensional Geologic Mapping: A Basis for Hydrogeologic and Land-Use Evaluations, W85-03272	1807 8E	<b>ILLINOIS STATE WATER SURVEY DIV., CHAMPAIGN. AQUATIC CHEMISTRY SECTION.</b>		Evaluation of Urban Design Storm Sensitivity, W85-01693
Hydrogeologic and Geochemical Studies of Selected Natural Radioisotopes and Barium in Groundwater in Illinois, W85-05122	1810 2K	Laboratory Evaluation of Ground Water Sampling Mechanisms, W85-00364	1801 5A	1804 2B
Assessment of Potential Agricultural and Industrial Uses of a Lime Water-Softening Waste Slurry, W85-05385	1810 5G	Sampling Tubing Effects on Groundwater Samples, W85-04655	1809 7B	Descriptive Decision Process Model for Hierarchical Management of Interconnected Reservoir Systems, W85-02147
Differential Transport of Fall-Equivalent Sand Grains, Lake Ontario, New York, W85-06422	1812 2J	<b>ILLINOIS STATE WATER SURVEY DIV., PEORIA. WATER QUALITY SECTION.</b>		1804 4A
<b>ILLINOIS STATE UNIV., NORMAL, DEPT. OF BIOLOGICAL SCIENCES.</b> Effects of Five Insecticides on Zygospore Germination and Growth of the Green Alga Chlamydomonas moewusii, W85-02966	1806 5C	Water Quality and Watershed Land Used of Johnson Sauk Trail Lake, W85-05722	1810 6G	Seismic Hydrodynamic Forces on Rock Slopes, W85-02262
<b>ILLINOIS STATE WATER SURVEY DIV., CHAMPAIGN.</b> Impact of Lake Michigan Allocations on the Cambrian-Ordovician Aquifer System, W85-00343	1801 4B	Inventory of Court Creek Watershed Characteristics That May Relate to Water Quality in the Watershed, W85-06331	1812 2A	Colonization and Recovery of Lotic Epilithic Communities: A Metabolic Approach, W85-02476
Sampling for Organic Contaminants in Groundwater, W85-00701	1802 5A	<b>ILLINOIS STATE WATER SURVEY, PEORIA. WATER QUALITY SECTION.</b>		1805 2H
Effectiveness of Street Sweeping in Urban Runoff Pollution Control, W85-00744	1802 5G	Giardia Lamblia and Water Supply, W85-04829	1809 5F	Anaerobic Activated Carbon Filter for the Degradation of Polycyclic N-Aromatic Compounds, W85-04288
Monthly Evaporation for Milford Lake in Kansas, W85-01507	1803 2D	<b>ILLINOIS UNIV. AT CHICAGO CIRCLE.</b> <b>DEPT. OF BIOLOGICAL SCIENCES.</b>		1808 5D
Potential Urban Rainfall Prediction Measurement System, W85-01701	1804 2B	Fate of Hexachlorocyclopentadiene in Water and Goldfish, W85-02214	1805 5B	Unified Analysis of Thickening, W85-04964
Episodic Nature of Wet Deposited Sulphate and Acidity, W85-03292	1807 5B	<b>ILLINOIS UNIV. AT CHICAGO CIRCLE.</b> <b>DEPT. OF GEOLOGICAL SCIENCES.</b>		1809 5E
Source Apportionment of Rain Water Impurities in Central Illinois, W85-03293	1807 5B	William River: An Outstanding Example of Channel Widening and Braiding Caused by Bed-Load Addition, W85-00981	1802 2J	Complying with NPDES Permit Limits: When is a Violation a Violation, W85-07038
Some Statistics of Instantaneous Precipitation, W85-03850	1808 2B	<b>ILLINOIS UNIV. AT URBANA-CHAMPAIGN.</b> <b>WATER RESOURCES CENTER.</b>		1812 6E
		Achieving Biologically Stable Drinking Water, W85-03624	1807 5F	Simultaneous Denitrification with Nitrification in Single-Channel Oxidation Ditches, W85-07051
		Settlement Analysis of Embankments on Soft Clays, W85-06023	1811 8D	<b>ILLINOIS UNIV. AT URBANA-CHAMPAIGN.</b> <b>DEPT. OF ECOLOGY, ETHOLOGY AND EVOLUTION.</b>
		Effects of Water Flow Rates on Leaching, W85-06778	1812 5B	Relationships Between Woody Debris and Fish Habitat in a Small Warmwater Stream, W85-04679
		<b>ILLINOIS UNIV. AT URBANA-CHAMPAIGN.</b> <b>DEPT. OF FORESTRY.</b>		1809 2E
		Economics of Changes in Irrigation Management in Pakistan: An Integrative Modeling Approach, W85-03029	1806 3F	<b>ILLINOIS UNIV. AT URBANA-CHAMPAIGN.</b> <b>INST. FOR ENVIRONMENTAL STUDIES.</b>
		Physical and Economic Impacts of Sedimentation on Fishing Activities; Nam Pong Basin, Northeast Thailand, W85-04448	1809 5C	Comparison of the Mutagenicity of Sewage Sludges, W85-03662
		Agricultural Nonpoint Pollution Control: An Assessment, W85-05942	1811 5G	1807 5E
		<b>IMPERIAL CHEMICAL INDUSTRIES LTD., BRIXHAM (ENGLAND). BRIXHAM LAB.</b>		<b>ILLINOIS UNIV. AT URBANA-CHAMPAIGN.</b> <b>WATER RESOURCES CENTER.</b>
		Trade Effluent Control - An Industrial Viewpoint, W85-03018	1806 5D	Water Reuse Through Groundwater Recharge in Northeastern Illinois, W85-06941
		<b>IMPERIAL CHEMICAL INDUSTRIES LTD., RUNCORN (ENGLAND). MOND DIV.</b>		1812 5D
		COPA II and the River Mersey - an Industrial View, W85-02226	1805 5D	<b>IMPERIAL COLL. AT SILWOOD PARK, SUNNINGHILL (ENGLAND).</b>
		Control of <i>Echinochloa stagnina</i> (Retz.) P. Beauv. by Harvesting for Dry Season Livestock Fodder in Lake Kainji, Nigeria - A Modelling Approach, W85-03077	1806 4A	Control of <i>Echinochloa stagnina</i> (Retz.) P. Beauv. by Harvesting for Dry Season Livestock Fodder in Lake Kainji, Nigeria - A Modelling Approach, W85-03077

## ORGANIZATIONAL INDEX

**INDIANA UNIV. AT BLOOMINGTON. DEPT. OF BIOLOGY.**

**IMPERIAL COLL. OF SCIENCE AND TECHNOLOGY, LONDON (ENGLAND).**  
Why Not Here - An Engineer Looks at Inland Waterway Transport,  
W85-02947 1806 8A

**IMPERIAL COLL. OF SCIENCE AND TECHNOLOGY, LONDON (ENGLAND).**  
**DEPT. OF CHEMICAL ENGINEERING AND CHEMICAL TECHNOLOGY.**

Effect of Thermal Pretreatment on the Anaerobic Biodegradability and Toxicity of Waste Activated Sludge,  
W85-02905 1806 5E

**IMPERIAL COLL. OF SCIENCE AND TECHNOLOGY, LONDON (ENGLAND).**  
**DEPT. OF CIVIL ENGINEERING.**

Operational River Water Quality Management,  
W85-01414 1803 5G

Development and Application of Models for Water Quality Management,  
W85-01427 1803 5G

Risk Analysis, Fuzzy Logic and River Basin Management,  
W85-01430 1803 5G

Nitrification Dynamics in the Oxidation Ditch Wastewater Treatment Process,  
W85-01432 1803 5D

Forecasting Water Levels for Lake Chad,  
W85-02362 1805 6A

Behaviour of Persistent Organochlorine Micropollutants During Primary Sedimentation of Waste Water,  
W85-03031 1806 5D

Occurrence and Distribution of Persistent Organochlorine Compounds in U.K. Sewage Sludges,  
W85-04012 1808 5D

Complexation of Heavy Metals by Extracellular Polymers in the Activated Sludge Process,  
W85-04290 1808 5D

Adsorption and Complexation Mechanisms of Heavy Metal Uptake in Activated Sludge,  
W85-04411 1809 5D

Hydrograph Sensitivity to Storm Kinematics,  
W85-05797 1810 2B

**IMPERIAL COLL. OF SCIENCE AND TECHNOLOGY, LONDON (ENGLAND).**  
**INDUSTRIAL SOCIOLOGY UNIT.**

Significance and Behaviour of Heavy Metals in Wastewater Treatment Processes IV. Water Quality Standards and Criteria,  
W85-04356 1808 5D

**IMPERIAL COLL. OF SCIENCE AND TECHNOLOGY, LONDON (ENGLAND).**  
**PUBLIC HEALTH ENGINEERING LAB.**

Factors Affecting the Removal of Metals During Activated Sludge Wastewater Treatment; I. The Role of Soluble Ligands,  
W85-02209 1805 5D

Factors Affecting the Removal of Metals During Activated Sludge Wastewater Treatment; II. The Role of Mixed Liquor Biomass,  
W85-02210 1805 5D

Comparison of Methods for the Determination of Conditional Stability Constants of Heavy Metal-Fulvic Acid Complexes,  
W85-02434 1805 5A

Evaluation of Single- and Separated-Phase Aerobic Industrial Wastewater Treatment in Fluidized Bed Reactors,  
W85-02735 1806 5D

Determination of Chlorinated Phenols in Water, Wastewater, and Wastewater Sludge by Capillary GC/ECD,  
W85-02810 1806 5A

Aspects of the Determination of Complexation Parameters for Metal-Particulate Complexes in Activated Sludge,  
W85-06223 1812 5D

### **IMPOLUSA, BILBAO (SPAIN).**

Sources of Pollution of the Estuary of the River Nervion, Spain - A Case Study,  
W85-01396 1803 5B

### **IN-SITU, INC., LARAMIE, WY.**

Detection of an Impermeable Boundary in an Anisotropic Formation: A Case Study,  
W85-02691 1805 2F

### **INBABER DER HUGGENBERGER A.G., ZURICH (SWITZERLAND).**

Automatic Data Collection for Concrete and Earth Dams,  
W85-01256 1803 7B

### **INDIAN AGRICULTURAL RESEARCH INST., NEW DELHI. DIV. OF AGRICULTURAL PHYSICS.**

Evaluation of Agricultural Drought Using Probability Distribution of Soil Moisture Index,  
W85-05075 1810 2B

Drought Year of 1979 - A Critical Appraisal with Reference to the Semi-Arid Region of Delhi,  
W85-05077 1810 2B

### **INDIAN AGRICULTURAL RESEARCH INST., NEW DELHI. DIV. OF AGRONOMY.**

Modification of Irrigation Requirement of Wheat Through Mulching and Foliar Application of Transpiration Suppressants,  
W85-05923 1811 3F

### **INDIAN AGRICULTURAL RESEARCH INST., NEW DELHI. WATER TECHNOLOGY CENTER.**

Recharge to Aquifers with Mixed Boundaries,  
W85-03081 1806 2F

Effect of Soil Moisture Regimes on the Yield and Water Use of Lentil (*Lens culinaris Medic*),  
W85-05171 1810 2I

### **INDIAN AGRICULTURAL STATISTICS RESEARCH INST., NEW DELHI.**

Statistical Study on Incidence of Drought in Relation to Agricultural Production,  
W85-05089 1810 2B

### **INDIAN COUNCIL OF AGRICULTURAL RESEARCH, NEW DELHI.**

Effects of Feeding Rates on Production of Common Carp and Water Quality in Paddy-cum-Fish Culture,  
W85-02236 1805 5B

### **INDIAN INST. OF SCIENCE, BANGALORE. DEPT. OF CIVIL ENGINEERING.**

Bed Shear from Velocity Profiles: A New Approach,  
W85-04400 1808 8B

### **INDIAN INST. OF TECH., BOMBAY. DEPT. OF CHEMICAL ENGINEERING.**

Biological Denitrification in a Fluidized Bed,  
W85-04660 1809 5D

### **INDIAN INST. OF TECH., BOMBAY. DEPT. OF CHEMISTRY.**

Nitrogenous Wastewater Treatment by Activated Algae,  
W85-04967 1809 5D

### **INDIAN INST. OF TECH., KANPUR.**

Trajectory of a Turbulent Cross Jet,  
W85-07030 1812 8B

### **INDIAN INST. OF TECH., MADRAS. DEPT. OF MECHANICAL ENGINEERING.**

Influence of Noncondensables on Modern Thermal Desalination,  
W85-01226 1803 3A

### **INDIAN INST. OF TECH., NEW DELHI. CENTRE FOR RURAL DEVELOPMENT AND APPROPRIATE TECHNOLOGY.**

Growth Studies of Azolla pinnata RBr. in a Permanent Pond,  
W85-05447 1810 5D

### **INDIAN INST. OF TECH., NEW DELHI. CENTRE OF ENERGY STUDIES.**

Transient Performance of a Single Basin Solar Still with Water Flowing Over the Glass Cover,  
W85-01219 1803 3A

### **INDIAN INST. OF TECH., NEW DELHI. DEPT. OF APPLIED MECHANICS.**

Irrigation System Study in International Basin,  
W85-06027 1811 6A

### **INDIAN INST. OF TECH., NEW DELHI. DEPT. OF CIVIL ENGINEERING.**

Unit Hydrograph Based Forecast Model,  
W85-02827 1806 2A

### **INDIAN INST. OF TROPICAL METEOROLOGY, POONA.**

Most Severe Rainstorm of India - a Brief Appraisal,  
W85-01139 1803 2B

Rainfall Distribution Over India During the Monsoon Months in the Absence of Depressions and Cyclonic Storms,  
W85-05081 1810 2B

Droughts over Peninsular India During 1861-1880 and Associated Circulation Features,  
W85-05082 1810 2B

Analysis and Prediction of Short Period Droughts During Summer Monsoon over India,  
W85-05085 1810 2B

Stochastic Model of Drought,  
W85-05088 1810 2B

### **INDIANA STATE BOARD OF HEALTH, INDIANAPOLIS.**

Twenty-Five Years of Phytoplankton on the West Fork and Main Stem of the White River: 1958-1982,  
W85-06849 1812 2H

### **INDIANA STATE BOARD OF HEALTH, INDIANAPOLIS. DIV. OF WATER POLLUTION CONTROL.**

Treatment of Metal Plating Wastewater with a Disposable Ion Exchange Material,  
W85-05243 1810 5D

### **INDIANA STATE UNIV., TERRE HAUTE. DEPT. OF LIFE SCIENCES.**

Teratogenic and Lethal Effects of Paraquat on Developing Frog Embryos (*Rana pipiens*),  
W85-02968 1806 5C

### **INDIANA UNIV. AT BLOOMINGTON. DEPT. OF BIOLOGY.**

Recent pH History of Big Moose Lake (Adirondack Mountains, New York, U.S.A.) Inferred from Sediment Diatom Assemblages,  
W85-02647 1805 5C

delta 13C Measurements as Indicators of Carbon Flow in Marine and Freshwater Ecosystems,  
W85-04431 1809 2K

## ORGANIZATIONAL INDEX

### INDIANA UNIV. AT BLOOMINGTON. DEPT. OF BIOLOGY.

Changes in Cladocera Community Structure and Fossil Pigment Stratigraphy as Compared to the Fire History of Elk Lake, Clearwater Co., MN, U.S.A., W85-05624 1810 5C

### INDIANA UNIV. AT BLOOMINGTON. DEPT. OF GEOLOGY.

Sulfur Isotopes and Hydrochemical Variations in Spring Waters of Southern Indiana, U.S.A., W85-00022 1801 2F

Effects of Aqueous Chemical Environments on Crack Propagation in Quartz, W85-00723 1802 8E

### INDIANA UNIV. AT BLOOMINGTON. DEPT. OF POLITICAL SCIENCE.

Garrison Diversion: Constraints on Conflict Resolution, W85-06532 1812 6E

### INDIANA UNIV. AT BLOOMINGTON. SCHOOL OF PUBLIC AND ENVIRONMENTAL AFFAIRS.

System Model of Stream-Channel Shape and Size, W85-01132 1803 2E

Decision Analysis for Toxic Waste Releases, W85-01157 1803 5C

Polychlorinated Dibenz-p-dioxins and Dibenzofurans in Sediments from Siskiwit Lake, Isle Royale, W85-03025 1806 5B

Environmental Impact of Two, Adjacent, Hazardous Waste Disposal Sites in the Niagara River Watershed, W85-04718 1809 5C

### INDIANA UNIV. NORTHWEST, GARY.

Availability of Dissolved Oxygen in Interstitial Waters of a Sandy Creek, W85-02103 1804 2E

### INDIANA UNIV.-PURDUE UNIV. AT INDIANAPOLIS. DEPT. OF BIOLOGY.

Alterations in the Zooplankton Community of a Fly Ash Treated Lake, W85-00995 1802 5G

Oxygen Consumption by the Crayfish Orconectes propinquus (Girard) Exposed to Aquashade, W85-02420 1805 5C

### INDUSTRIAL ENVIRONMENTAL RESEARCH LAB.-CINCINNATI, OH.

Control and Treatment Technology for the Metal Finishing Industry. In-Plant Changes, W85-04929 1809 5D

Control and Treatment Technology for the Metal Finishing Industry. Ion Exchange, W85-04931 1809 5D

Activated Sludge with Powdered Activated Carbon Treatment of a Dyes and Pigments Processing Wastewater, W85-05553 1810 5D

Leachability and Revegetation of Solid Waste from Mining, W85-06990 1812 5G

### INDUSTRIAL TOXICOLOGY RESEARCH CENTRE, LUCKNOW (INDIA).

Water Flea (*Daphnia magna*) as a Sensitive Indicator for the Assessment of Toxicity of Synthetic Detergents, W85-02943 1806 5C

### INFORMES Y PROYECTOS S.A., MADRID (SPAIN).

Sallente Dam Spillway, W85-05820 1810 8A

INGENIEURBURO, AARAU (SWITZERLAND). Simplest Approximate Computation of Dam-break Waves (Die Einfachste Naherungsberechnung von Dammbruchwellen), W85-04630 1809 8B

### INGENIEURBURO ALWIN EPPLER, DORNSTETTEN (GERMANY, F.R.).

Reservoir Murg in Gaggenau (Murgstau Gaggenau), W85-03268 1807 8A

### INGENIEURBURO DR. KUPFER, MUNICH (GERMANY, F.R.).

Base of Concrete Dams - Loading and Design (Die Grundungsfuge von Staumauern - Beanspruchung und konstruktive Ausbildung), W85-03257 1807 8A

### INGENIEURBURO FUER BAULICHE ANLAGEN DER STADT ZURICH (SWITZERLAND).

New Bottom Outlet for the Schrah Dam at the Wagital Power Station, Siebnen (Neuer Gründablass für die Staumauer Schrah der AG Kraftwerk Wagital, Siebnen), W85-01264 1803 8A

### INLAND CONTAINER CORP., NEWPORT, IN.

Operational Experience with Anaerobic/Aerobic Treatment System for Paper Mill Wastewater, W85-07009 1812 5D

### INLAND WATERS DIRECTORATE, VANCOUVER (BRITISH COLUMBIA).

WATER QUALITY BRANCH. Intervention Analysis of Water Quality Records, W85-03131 1806 7B

### INNSBRUCK UNIV. (AUSTRIA).

Fractionation of Organic and Inorganic Phosphorus Compounds in Lake Sediments, An Attempt to Characterize Ecologically Important Fractions (Die Fraktionierung Organischer und Anorganischer Phosphorverbindungen von Sedimenten, Versuch einer Definition Ökologisch Wichtiger Fraktionen), W85-05728 1810 2H

### INNSBRUCK UNIV. (AUSTRIA). BOTANISCHES INST.

Phytoplankton as Biological Parameter for the Trophic Characterization of Lakes, W85-04561 1809 2H

### INNSBRUCK UNIV. (AUSTRIA). DEPT. OF LIMNOLOGY.

Phosphorus Release Patterns from Sediments of a Meromictic Mesotrophic Lake (Piburger See, Austria), W85-02619 1805 5C

Trophic Relationships Between Bacteria and Protozoa in the Hypolimnion of a Meromictic Mesotrophic Lake, W85-05864 1811 2H

### INNWERK A.G., TOEGING (GERMANY, F.R.).

Automation on Run-of-River Power Plants on the Inn (Automatisierung von Laufwasserkraftwerken am Inn), W85-01258 1803 8A

### INSITU CONSULTING, LARAMIE, WY.

In-Situ Determination of Three-Dimensional Aquifer Permeabilities, W85-00338 1801 2F

State-of-the-Art Approach to Hydrologic Data Management, W85-03191 1806 7B

### INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, RIMOUSKI (QUEBEC). CENTRE D'OCEANOLOGIA.

Estuarine Development of a Regulated River in a Sub-Boreal Climate: The Outardes River (North Coast of the St. Lawrence Gulf, Quebec) (Evolution Estuarienne d'une Rivière Regularisée En Climat Sub-Boreal: La Rivière Aux Outardes (Côte Nord du Golfe du St-Laurent, Québec)), W85-00956 1802 2J

### INST. DE PESCA, AGRIC. OF SAO PAULO STATE, BRAZIL.

Further Studies on the Zooplankton Community of a Eutrophic Reservoir in Southern Brazil, W85-05648 1810 2H

### INSTEIN COMPUTER SYSTEMS, STONE (ENGLAND).

Use of Surface Resistance-Soil Moisture Relationships in Soil Water Budget Models, W85-01060 1802 2D

### INSTITUT ARMAND-FRAPPIER, LAVAL (QUEBEC). CENTRE DE RECHERCHE EN VIROLOGIE.

Relative Resistance to Chlorine of Poliovirus and Coxsackievirus Isolates from Environmental Sources and Drinking Water, W85-06147 1811 5F

### INSTITUT D'HYGIENE ET D'EPIDEMIIOLOGIE, BRUSSELS (BELGIUM).

Polycyclic Aromatic Hydrocarbons in Rainwater, W85-00741 1802 5B

Glutathione S-Transferase in Aquatic Macro-Invertebrates and its Interaction with Different Organic Micropollutants, W85-04359 1808 5C

### INSTITUT D'HYGIENE, GENEVA (SWITZERLAND).

Linearized Tidal Friction in Uniform Channels, W85-01556 1803 2L

### INSTITUT DE GENIE CHIMIQUE DE TOULOUSE (FRANCE).

Mathematical Model of a Mechanical-Vapor Compression Evaporator. Application to the Production of Freshwater by Seawater Desalination; Part II - Numerical Exploitation, W85-00250 1801 3A

### INSTITUT DE GEOLOGIE DU BASSIN D'AQUITAINE, TALENCE (FRANCE).

Behaviour of Pb, Zn, Ni, and Cu in the Sediments of the Loukkos Estuary and the Close Shelf (Atlantic Coast of Morocco) (Comportement Du Pb, Zn, Ni, et Cu Dans les Sédiments de L'Estuaire du Loukkos et du Proche Plateau Continental (Côte Atlantique Marocaine)), W85-02293 1805 5B

### INSTITUT DE MECANIQUE DE GRENOBLE, SAINT-MARTIN D'HERES (FRANCE).

Vertical Dispersion of Spherical, Heavy Particles in Turbulent Open Channel Flow, W85-07031 1812 2J

### INSTITUT FOTOSINTEZA, PUSHCHINO (USSR).

Study of Landscape-Agrogeochemical Balance of Nutrients in Agricultural Regions: Part III. Nitrogen, W85-02923 1806 5B

### INSTITUT FRESENIUS CHEMISCHE UND BIOLOGISCHE LABORATORIEN G.M.B.H., TAUNUSSTEIN-NEUHOF (GERMANY, F.R.).

Interactions of Halogenated Hydrocarbons with Soils, W85-03287 1807 5B

## ORGANIZATIONAL INDEX

**INSTITUT RUDJER BOSKOVIC, ZAGREB (YUGOSLAVIA). CENTER FOR MARINE**

<b>INSTITUT FUER ENERGETIK, LEIPZIG (GERMAN D.R.).</b>			
Further Development of Oil-Separation Technology (Weiterentwicklung von Technologien bei der Olabtrennung), W85-03473	1807	5D	
<b>INSTITUT FUER MEERESFORSCHUNG, BREMERHAVEN (GERMANY, F.R.).</b>			
Method to Measure Suspended Load Transports in Estuaries, W85-04675	1809	2L	
<b>INSTITUT FUER MILCHWIRTSCHAFT, BERLIN (GERMAN, D.R.).</b>			
Rational Water Use and Performance Evaluation (Rationelle Wasserverwendung und Leistungsbewertung), W85-03524	1807	3E	
<b>INSTITUT FUER WASSERWIRTSCHAFT, BERLIN (GERMAN D.R.).</b>			
Data Bank for Waterworks and Facilities - Goals and Problem-solving Concept (Datenbank Wasserwerke und Anlagen - Aufgaben und Lösungskonzeption), W85-01969	1804	5F	
Studies on Securing and Increasing the Effectiveness of Older Dams (Beitrage zur Sicherung und Erhöhung der Effektivität alterer Talsperren), W85-03451	1807	4A	
Problems in Reconstructing Gravity Dams - Stress-Deformation Analysis for an Added Concrete Coating (Probleme der Rekonstruktion von Gewichtsstaumauern-Spannungs-Verformungsanalyse für Einen Vorsatzbetonmantel), W85-03452	1807	8A	
Upper Limit of Phytoplankton Production in Natural Waters (Über die obere Grenze der Phytoplanktonproduktion in natürlichen Gewässern), W85-03611	1807	2H	
Leaching of Several Insecticides from an Agriculturally Used Soil in Lysimeter Studies (Auswaschung einiger Insektizide aus landwirtschaftlich genutzten Boden im Lysimeterversuch), W85-06259	1812	5B	
Method for Nitrate Elimination in Waters (Verfahren zur Nitrateliminierung im Gewässer), W85-06264	1812	5G	
Detection of Toxic Inhibition of Biochemical Degradation in River Water (Nachweis Toxischer Hemmung des Biochemischen Abbaus in Flusswasser), W85-06649	1812	5B	
Toxicity of Simple and Complexed Cyanide to Aquatic Organisms (Zur Toxizität einfacher und Komplexer Cyanide gegenüber Wasserorganismen), W85-06660	1812	5C	
<b>INSTITUT FUER WASSERWIRTSCHAFT, LEIPZIG (GERMAN D.R.).</b>			
Modeling of Groundwater Conditions in the Leipzig-Delitzsch Mining Region (Modellierung der Grundwasserverhältnisse im Bergbaugebiet Leipzig-Delitzsch), W85-04321	1808	2F	
<b>INSTITUT FUER WASSERWIRTSCHAFT, LEITSTELLE FUER RATIONELLE WASSERVERWENDUNG, DRESDEN (GERMAN D.R.).</b>			
Stimulation of Rational Water Use Measures (Zur Stimulierung von Massnahmen der rationalen Wasserverwendung), W85-03471	1807	3E	
<b>INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, CLERMONT-FERRAND (FRANCE). LAB. DE BIOCLIMATOLOGIE.</b>			
Some Aspects of the Water Relations Between Different Organs of the Same Plant, W85-03609	1807	2I	
<b>INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, CLERMONT-FERRAND (FRANCE). STATION D'AGRONOMIE.</b>			
Some Data and Reflections on the Drought Resistance Mechanisms of Maize and Sunflowers (Quelques Données et Reflexions sur les Mécanismes de Résistance à la Sécheresse à Partir des Exemples du Maïs et du Tournesol), W85-02333	1805	2I	
<b>INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, JOUY-EN-JOSAS (FRANCE). LAB. DE BIOMETRIE.</b>			
Modeling the Seasonal Thermal Development of Lake Nantua (Ain, France) (Modélisation de l'Évolution Thermique Saisonnière du Lac de Nantua (Ain, France)), W85-02611	1805	2H	
<b>INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, JOUY-EN-JOSAS (FRANCE). LAB. DE PHYSIOLOGIE DES POISSONS.</b>			
Effect of Metals and Cyanide on Fertilization in Rainbow Trout (Salmo gairdneri), W85-04976	1810	5C	
<b>INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, PARIS (FRANCE). STATION DE BIOCLIMATOLOGIE.</b>			
Experimental Study of Potential Evapotranspiration (PET) in Central Africa, W85-01613	1803	2D	
<b>INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, THONON-LES-BAINS (FRANCE). STATION D'HYDROBIOLOGIE LACUSTRE.</b>			
Variability of the Physico-Chemical Characteristics of the Ponds of Dombes (Ain) (La Variabilité des Caractéristiques Physico-chimiques des Etangs de la Dombes (Ain)), W85-05650	1810	2K	
<b>INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, VERSAILLES (FRANCE). STATION DE BIOCLIMATOLOGIE.</b>			
Water Transfer in Plants; III. - Simulation of the Influence of Canopy Parameters for Diurnal Development of Leaf Water Potential (Transfert Hydrique dans le végétal; III. - Simulation de l'influence des paramètres du couvert sur l'évolution diurne du potentiel hydrique foliaire), W85-00085	1801	2I	
Evapotranspiration of a Deciduous Forest: Simulation Using Routine Meteorological Data, W85-04281	1808	2D	
<b>INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, RIMOUSKI (QUEBEC). CENTRE D'OCEANOLOGIA.</b>			
Estuarine Mean Flow Estimation Revisited: Application to the St. Lawrence Estuary, W85-05736	1810	2L	
<b>INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, SAINTE-FOY (QUEBEC).</b>			
Rapid Method for Separating Phosphorus Compounds by Molecular Weight Using Exclusion Gels and Centrifugation, W85-02439	1805	5A	
Sediment Geochemistry in a Eutrophic Lake Colonized by the Submersed Macrophyte Myriophyllum spicatum, W85-02633	1805	2H	
Aluminum Speciation in Surface Waters on the Canadian Pre-Cambrian Shield, W85-02634	1805	2K	
Multivariate Analysis of Parameters Related to Lake Acidification in Quebec, W85-02981	1806	5B	
PCBs and Organochlorine Pesticides in the St. Lawrence System (BPC ET Pesticides Organochlores Dans Le Système Saint-Laurent), W85-04581	1809	5B	
Trace Metals in Oxic Lake Sediments: Possible Adsorption onto Iron Oxyhydroxides, W85-04757	1809	5B	
Physical and Chemical Evolution of Snowpacks on the Canadian Shield (Winter 1979-1980), W85-05659	1810	2C	
Graph Theory Applied to Evaluation of Water Sciences Research Systems, W85-06697	1812	6B	
Networks Planning for Water Investigations, W85-07098	1812	7A	
<b>INSTITUT NATIONAL DES SCIENCES APPLIQUEES DE LYON, VILLEURBANNE (FRANCE). LAB. DE TRAITEMENT DU SIGNAL ET ULTRASONS.</b>			
Summary of Research Work on Cavitation (Essai de synthèse des recherches sur la cavitation), W85-03586	1807	8B	
<b>INSTITUT NATIONAL POLYTECHNIQUE, TOULOUSE (FRANCE).</b>			
Sewerman and the Scientist; A Parable for the Academic Following a Course of Decontamination (L'égoutier et le savant; Conte moral pour universitaire en cure d'assainissement), W85-02351	1805	5D	
<b>INSTITUT PASTEUR HELLENIQUE, ATHENS (GREECE). DEPT. OF VIROLOGY.</b>			
Seasonal Distribution of Enteroviruses and Adenoviruses in Domestic Sewage, W85-05742	1810	5B	
<b>INSTITUT PASTEUR, PARIS (FRANCE). DEPT. D'IMMUNOLOGIE.</b>			
Isolation of Pathogenic Bacteria Present in Water Using Immunoabsorbents (Isolement de Bactéries Pathogènes Contaminant une Eau à l'aide d'Immunoabsorbants), W85-02441	1805	5A	
<b>INSTITUT RUDJER BOSKOVIC, ROVINJ (YUGOSLAVIA). CENTAR ZA ISTRAZIVANJE MORA.</b>			
DNA Damage by Benzo(a)pyrene in the Liver of Mosquito Fish Gambusia affinis, W85-06550	1812	5C	
<b>INSTITUT RUDJER BOSKOVIC, ZAGREB (YUGOSLAVIA). CENTER FOR MARINE RESEARCH.</b>			
Optimal Manual Procedure for Ammonia Analysis in Natural Waters by the Indophenol Blue Method, W85-02433	1805	5A	
Chromosomal Aberrations in Onion ( <i>Allium cepa</i> ) Induced by Water Chlorination By-Products, W85-04348	1808	5C	
Model of Diatom Dynamics in the Epilimnion of Lake Jezero on the Island of Krk, W85-04900	1809	2H	
Effects of Ecological Perturbations on Diatom Dynamics in the Model of Lake Jezero, W85-04901	1809	2H	

## ORGANIZATIONAL INDEX

### INSTITUT RUDJER BOSKOVIC, ZAGREB (YUGOSLAVIA). CENTER FOR MARINE

Electrochemical Determination and Characterization of Surface Active Substances in Freshwaters, W85-04972	1810 2H		Predicting the Mean Annual Flood from Basin Characteristics in Scotland, W85-05902	1811 2E
<b>INSTITUTE FOR ATMOSPHERIC PHYSICS, BUDAPEST (HUNGARY).</b>			Appraisal of the Regional Flood Frequency Procedure in the UK Flood Studies Report, W85-05905	1811 2E
Acid Gases and Acid in Rain Monitored for over 5 Years in Rural East-Central England, W85-03290	1807 5B		Grouping Basins for Regional Flood Frequency Analysis, W85-05908	1811 2E
<b>INSTITUTE FOR LAND RECLAMATION AND GRASSLAND FARMING, WROCLAW (POLAND).</b>			Flow Resistance Estimation in Mountain Rivers, W85-06039	1811 2E
Stream Ecosystems in Mountain Grassland (West Carpathians); 2. Hydrological Characteristics, W85-02513	1805 2E		Nutrient Inputs and Outputs in a Forested and Grassland Catchment at Plynlimon, Mid Wales, W85-06278	1812 5B
<b>INSTITUTE FOR MARINE ENVIRONMENTAL RESEARCH, PLYMOUTH (ENGLAND).</b>			Measurement and Prediction of Evaporation from Forested and Agricultural Catchments, W85-06666	1812 2D
Preliminary Model of the Dispersal and Biological Effect of Toxins in the Tamar Estuary, England, W85-00266	1801 5B		<b>INSTITUTE OF MARINE BIOCHEMISTRY, ABERDEEN (SCOTLAND).</b>	
Embryo Abnormalities in the Periwinkle, <i>Littorina saxatilis</i> , as Indicators of Stress in Polluted Marine Environments, W85-04893	1809 5A		Interspecies Differences in Heavy Metal Detoxification in Oysters, W85-05896	1811 5C
Responses of the Mussel <i>Mytilus edulis</i> to Copper and Phenanthrene: Interactive Effects, W85-05886	1811 5C		Intracellular Control of Cd Concentrations in Marine Mussels, W85-05897	1811 5C
Observed Fluxes of Water, Salt and Suspended Sediment in a Partly Mixed Estuary, W85-06852	1812 2L		<b>INSTITUTE OF NUCLEAR PHYSICS, KRAKOW (POLAND).</b>	
Voltammetric Measurement of Copper(II)/Organic Interactions in Estuarine Waters, W85-07163	1812 5A		New Models for Interpreting Data on the Content of Environmental Tracers in Groundwaters and Their Combined Use, W85-04135	1808 2F
<b>INSTITUTE FOR PESTICIDE RESEARCH, WAGENINGEN (NETHERLANDS).</b>			Stable-Isotope Method for Determining the Water Balance of Lakes, W85-04136	1808 2H
Contribution of Leaching of Diazinon, Parathion, Tetrachlorvinphos and Triazophos from Glasshouse Soils to Their Concentrations in Water Courses, W85-01961	1804 5B		<b>INSTITUTE OF NUCLEAR SCIENCES, LOWER HUTT (NEW ZEALAND).</b>	
Leaching of Oxidation Products of Aldicarb from Greenhouse Soils to Water Courses, W85-02208	1805 5B		Stable Carbon Isotope Ratios of Fish and Their Invertebrate Prey in Four New Zealand Rivers, W85-06416	1812 2H
Computed and Measured Leaching of the Insecticide Methomyl from Greenhouse Soils into Water Courses, W85-02924	1806 5B		<b>INSTITUTE OF OCEAN SCIENCES, SIDNEY (BRITISH COLUMBIA).</b>	
<b>INSTITUTE FOR SOIL FERTILITY, GRONINGEN (NETHERLANDS).</b>			Comparative Study of Respiration Rates of Some Aquatic Oligochaetes in Relation to Sub-lethal Stress, W85-04905	1809 5C
Standardization of Methods of Analysis for Heavy Metals in Sediments, W85-02104	1804 5A		Effects of Oil on Marine Mammals, W85-05591	1810 5C
<b>INSTITUTE OF APPLIED BIOLOGY, SIEDLCE (POLAND).</b>			<b>INSTITUTE OF OCEANOGRAPHIC AND FISHERIES RESEARCH, ATHENS (GREECE).</b>	
Effect of Temperature on Survival of Carp Fry, <i>Cyprinus carpio</i> L., in Acidic Water, W85-05623	1810 5C		Nutrients of the Saronikos Gulf in Relation to Environmental Characteristics (1973-1976), W85-00424	1801 5C
<b>INSTITUTE OF AQUATIC BIOLOGY, ACHIMOTA (GHANA).</b>			<i>Mytilus galloprovincialis</i> and <i>Parapenaeus longirostris</i> as Bioindicators of Heavy Metal and Organochlorine Pollution, W85-01899	1804 5A
Chemical Survey of the Volta Estuary, W85-04854	1809 2L		Effects of Cadmium Ions on the Ultrastructure of the Gill Cells of the Brown Shrimp <i>Crangon crangon</i> (L.) (Decapoda, Caridea), W85-05875	1811 5C
<b>INSTITUTE OF EARTH SCIENCES, UTRECHT (NETHERLANDS). COMPARATIVE SEDIMENTOLOGY DIV.</b>			<b>INSTITUTE OF OCEANOGRAPHIC SCIENCES, BIRKENHEAD (ENGLAND).</b>	
Reactivation Surfaces in Subtidal Channel Deposits, Oosterschelde, Southwest Netherlands, W85-02836	1806 2J		Simple Theory for Designing Tidal Power Schemes, W85-03476	1807 8A
<b>INSTITUTE OF OCEANOGRAPHIC SCIENCES, TAUNTON (ENGLAND).</b>			Mixing Caused by Lateral Internal Seiching within a Partially Mixed Estuary, W85-00656	1802 2L
New Type of Curve Method for the Analysis of Pumping Tests in Large-Diameter Wells, W85-05505	1810 2F			

## ORGANIZATIONAL INDEX

**INSTYTUT RYBACTWA SRODLADOWEGO, OLSZTYN-KORTOWO (POLAND).**

<b>INSTITUTE OF OCEANOGRAPHIC SCIENCES, WORMLEY (ENGLAND).</b>		
Particulate Load of the Red River, St. Ives Bay: Its Geochemical Composition and the Effect of its Discharge Plume on the Behaviour of a Resident Wild Dolphin, W85-06880	1812	5C
<b>INSTITUTE OF OCEANOGRAPHY AND FISHERIES, ALEXANDRIA (EGYPT).</b>		
Interactions of Carbaryl with Estuarine Bacterial Communities, W85-03238	1807	5C
Effect of Regulation of the Nile River Discharge on the Oceanographic Conditions and Productivity of the Southeastern Part of the Mediterranean Sea, (Utejaj Regulacije Dotoka Rijeke Nil Na Oceanografska Svojstva I Produciju Jugoslovnog Dijela Sredozemnog Mora), W85-06423	1812	6G
Evaluation of Tilapia Spp. in Lake Manzalah as Pond Fishes, (Procjenja Tilapia Spp. U Jezera Manzalah Kao Ribnjacarskih Vrsta), W85-06424	1812	6G
<b>INSTITUTE OF OCEANOGRAPHY AND FISHERIES, CAIRO (EGYPT).</b>		
Experimental Studies on the Effect of Sodium Chloride, Dimethoate and Bayuscide on the Growth and Metabolism of the Alga Staurastrum Boreale W. West, W85-06390	1812	5C
<b>INSTITUTE OF PHYSICS AND NUCLEAR TECHNIQUES, KRAKOW (POLAND).</b>		
Isotope Stratification in High Mountain Glaciers: Examples from the Peruvian Andes and Himalaya, W85-03345	1807	2C
<b>INSTITUTE OF TERRESTRIAL ECOLOGY, BANGOR (WALES).</b>		
Factors Influencing Bulk Precipitation Chemistry at an Upland Site in Mid-Wales, W85-00509	1802	2K
Assessment of the Spatial Variation in the Chemical Composition of Bulk Precipitation within an Upland Catchment, W85-01348	1803	2K
<b>INSTITUTE OF TERRESTRIAL ECOLOGY, EDINBURGH (SCOTLAND).</b>		
Composition and Acidity of Precipitation in Hungary, W85-03291	1807	5B
Chemical Composition of Rainfall and Wet Deposition over Northern Britain, W85-03295	1807	5B
Methods for Evaluation Maximum Acceptable Toxicant Concentration of Some Pesticides Upon the Freshwater Fish. I. Evaluation MATC Values of Fungicide Thiram (Metode de Determinarea a Valorilor Maxime Admisibile (MATC) in Apa a Unor Pesticide Asupra Unor Specii de Pesti Dulcicoli. I. Determinarea Valorii MATC a Fungicidului Tiuram), W85-03531	1807	5C
<b>INSTITUTE OF TERRESTRIAL ECOLOGY, GRANGE OVER SANDS (ENGLAND). MERLEWOOD RESEARCH STATION.</b>		
Radionuclide Levels and Distribution in Grazed Saltmarsh in West Cumbria, W85-06814	1812	5B
<b>INSTITUTE OF TERRESTRIAL ECOLOGY, HUNTINGDON (ENGLAND). MONKS WOOD EXPERIMENTAL STATION.</b>		
Limitations of Body Burden as an Index of Environmental Contamination: Heavy Metals in Fish Cottus gobio L. from the River Ecclesbourne, Derbyshire, W85-01446	1803	5A
Constraints on Water-resource Development in England and Wales: The Concept and Management of Compensation Flows, W85-06178	1812	6E
<b>INSTITUTE OF WATER CONSERVANCY AND HYDROELECTRIC POWER RESEARCH, BEIJING (CHINA).</b>		
Sedimentation Problem in Water Conservancy in China, W85-04446	1809	4D
<b>INSTITUTO ANTARTICO ARGENTINO, BUENOS AIRES.</b>		
Snow Chemistry on James Ross Island (Antarctic Peninsula), W85-00519	1802	2C
<b>INSTITUTO ARGENTINO DE OCEANOGRAFIA, BUENOS AIRES.</b>		
Simplified Confirmatory Technique for Organochlorine Residues, W85-01456	1803	5A
Turbulence Measurements Over a Sand Wave in Lower Chesapeake Bay, Virginia, W85-03348	1807	2L
<b>INSTITUTO ARGENTINO DE OCEANOGRAFIA, BUENOS AIRES. LAB. DE QUIMICA MARINA.</b>		
Chlorinated Hydrocarbons in the Seawater and Surface Sediments of Blanca Bay, Argentina, W85-02289	1805	5B
Tidal Variations of Some Physico-Chemical Parameters in Blanca Bay, Argentina, W85-03498	1807	2L
<b>INSTITUTO NACIONAL DE INVESTIGACIONES AGRARIAS, CORDOVA (SPAIN). DEPT. DE PLANTASOLEAGINOSAS.</b>		
Infiltration in Swelling Soils, W85-04790	1809	2G
<b>INSTITUTO NACIONAL DE LIMNOLOGIA, SANTO TOME (ARGENTINA).</b>		
Limnological Studies in a Cross-Section of the Middle Reach of Parana River, I: Geomorphological and Hydrological Characteristics (Estudios Limnologicos en una Seccion Transversal del Tramo Medio del Rio Parana, I: Caracteres Geomorfologicos e Hidrologicos), W85-05172	1810	2E
Limnological Studies in a Cross-Section of the Middle Reach of Parana River, II: Characteristics and Temporal Variations of Suspended Sediment Granulometry (Estudios Limnologicos en una Seccion Transversal del Tramo Medio del Rio Parana, II: Caracteristicas y Variaciones Temporales de la Granometria de los Sedimentos Suspensidos), W85-05173	1810	2J
Limnological Studies in a Cross-Section of the Middle Reach of Parana River, III: Solid Components Transported in Suspension (Estudios Limnologicos en una Seccion Transversal del Tramo Medio del Rio Parana, III: Componentes Solidos Transportados en Suspension), W85-05174	1810	2J
Limnological Studies in a Cross-Section of the Middle Reach of Parana River, IV: Influence of the Suspended Sediment Granulometric Composition on Water Transparency (Estudios Limnologicos en una Seccion Transversal Del Tramo Medio Del Rio Parana, IV: Influencia de la Composicion Granometrica de los Sedimentos Suspensos Sobre la Transparencia del Agua), W85-05175	1810	2J
Limnological Studies in a Cross-Section of the Middle Reach of Parana River, V: Textural Features of Bed Sediments (Estudios Limnologicos en una Seccion Transversal del Tramo Medio del Rio Parana, V: Caracteres Texturales de los Sedimentos de Fondo), W85-05176	1810	2J
Limnological Studies in a Cross-Section of the Middle Reach of Parana River, VI: Water Temperature (Estudios Limnologicos en una Seccion Transversal del Tramo Medio del Rio Parana, VI: Temperatura del Agua), W85-05177	1810	2H
<b>INSTITUTO NACIONAL DE PESQUISAS DA AMAZONIA, MANAUS (BRAZIL).</b>		
Structure and Ecology of the Micro-Fauna in the Central Amazonian Forest Stream 'Igarape da Cachoeira', W85-06387	1812	2E
Evapotranspiration of the Forest in the Amazon Region (Evapotranspiracao de Florestas da Regiao Amazonica), W85-06450	1812	2D
<b>INSTITUTUL DE STIINTE BIOLOGICE, BUCHAREST (ROMANIA).</b>		
Kinetics of Iron Oxidation During Groundwater Filtration in the Groundwater Conductor (Zur Kinetik der Oxydation von Eisen bei der Filtration von Grundwasser im Grundwasserleiter), W85-03533	1807	5F
<b>INSTITUTUL POLITEHNIC DIN BUCURESTI (ROMANIA). DEPT. OF ENERGETICS.</b>		
Eco-Engineering Aspects of the Heated Water Disposal in the Black Sea, W85-00570	1802	5C
<b>INSTITUUT VOOR CULTUURTECHNIEK EN WATERHUISHOUING, WAGENINGEN (NETHERLANDS).</b>		
Influence of Seepage on the Depth of Water Tables in Drainage, W85-02490	1805	4B
<b>INSTYTUT KSZTALTOWANIA SRODOWISKA, KRAKOW (POLAND).</b>		
Influence of Urban Runoff on the Water Pollution of the Vistula in the Region of Cracow Agglomeration, W85-00222	1801	5B
Effect of Rain Waters on Lead Level in the Vistula in the Region of Cracow Agglomeration, W85-00230	1801	5C
Effect of Rain Waters on Salinity Variation of the Vistula in the Region of Cracow Agglomeration (on the Example of Chlorides), W85-00231	1801	5C
Effects of Exploration of the 'Zarabie' Bath on the Water Quality of the River Raba (South Poland), W85-02510	1805	5C
<b>INSTYTUT KSZTALTOWANIA SRODOWISKA, WARSAW (POLAND).</b>		
Novel Evaluation of Activated Sludge Process in Chemical Plant, W85-03723	1807	5D
<b>INSTYTUT RYBACTWA SRODLADOWEGO, OLSZTYN-KORTOWO (POLAND).</b>		
Outdoor Recreation - A New Factor Disturbing Lake Ecosystems, as Exemplified by Lake Gim, Mazurian Lake District, W85-04557	1809	5C

## ORGANIZATIONAL INDEX

### INSTYTUT RYBACTWA SRODLADOWEGO, PIASECZNO (POLAND). ZAKLAD RYBACTWA

**INSTYTUT RYBACTWA SRODLADOWEGO, PIASECZNO (POLAND). ZAKLAD RYBACTWA STAWOWEGO.**

Some Remarks on the Ecology of Algae in Heated Waters (Uwagi o ekologii glonow w wodach podgrzanych),  
W85-04609 1809 5C

**INSTYTUT RYBACTWA SRODLADOWEGO, WARSAW (POLAND). HEATED WATER LAB.**

Effect of Water Temperature Elevation on Incipient and Cumulative Fecundity of Batch-Spawning Tench, *Tinca tinca* (L.),  
W85-04707 1809 8I

**INTER-AMERICAN DEVELOPMENT BANK, WASHINGTON, DC. DEPT. OF ECONOMIC AND SOCIAL DEVELOPMENT.**

Water Resources of Latin America.  
W85-03702 1807 6B

**INTERA ENVIRONMENTAL CONSULTANTS LTD., OTTAWA (ONTARIO).**

Use of Satellite Data for Monitoring Oil Spills in Canada,  
W85-05578 1810 7B

**INTERMOUNTAIN FOREST AND RANGE EXPERIMENT STATION, MOSCOW, ID.**

**FORESTRY SCIENCES LAB.**

Alteration of Streamflow Characteristics Following Road Construction in North Central Idaho,  
W85-02372 1805 2E

**INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT, WASHINGTON, DC. AGRICULTURAL AND RURAL DEVELOPMENT DEPT.**

Modeling Efficient Water Allocation in a Conjunctive Use Regime: The Indus Basin of Pakistan,  
W85-03550 1807 6F

**INTERNATIONAL CENTER FOR ARID AND SEMI-ARID LAND STUDIES, LUBBOCK, TX.**

Combating Desertification: Evaluation of Progress,  
W85-03202 1806 4D

**INTERNATIONAL CENTER FOR LIVING AQUATIC RESOURCES MANAGEMENT, MANILA (PHILIPPINES).**

International Center for Living Aquatic Resources Management Report 1981 (ICLARM).  
W85-06977 1812 9A

**INTERNATIONAL ENVIRONMENTAL CONSULTANTS, INC., GOLDEN, CO.**

Increased Diversion at Chicago: Initial Assessment,  
W85-01580 1803 6B

**INTERNATIONAL ENVIRONMENTAL CONSULTANTS LTD., ISLINGTON (ONTARIO).**

Irradiation as an Alternative for Disinfection of Domestic Waste in the Canadian Arctic.  
W85-06982 1812 5D

**INTERNATIONAL INST. FOR APPLIED SYSTEMS ANALYSIS, LAXENBURG (AUSTRIA).**

Water-Quality Modelling: A Comparison of Transport-Oriented and Ecology-Oriented Approaches,  
W85-01116 1802 5B

Min-Max Approach to Reservoir Management,  
W85-03552 1807 4A

Interactive Computer Technology for Planning and Policy Modeling,  
W85-05491 1810 6A

**INTERNATIONAL INST. FOR LAND RECLAMATION AND IMPROVEMENT, WAGENINGEN (NETHERLANDS).**

Modern Interferences in Traditional Water Resources in Baluchistan,  
W85-03705 1807 6B

**INTERNATIONAL INST. OF HYDRAULIC AND ENVIRONMENTAL ENGINEERING, DELFT (NETHERLANDS).**

Experience with Chlorine Dioxide in Brussels, Part 3: Operational Case Studies,  
W85-05479 1810 5F

**INTERNATIONAL JOINT COMMISSION-UNITED STATES AND CANADA, COLUMBUS, OH.**

Mitigating Effects of Artificial Riffles and Pools on the Fauna of a Channelized Warmwater Stream,  
W85-00203 1801 6G

**INTERNATIONAL JOINT COMMISSION-UNITED STATES AND CANADA, WINDSOR (ONTARIO).**

Nonpoint Source Pollution Abatement in the Great Lakes Basin/An Overview of Post-PLUARG Developments.  
W85-06341 1812 5G

**INTERNATIONAL JOINT COMMISSION-UNITED STATES AND CANADA, WINDSOR (ONTARIO). MUNICIPAL ABATEMENT PROGRAMS TASK FORCE.**

Review of the Municipal Pollution Abatement Programs in the Great Lakes Basin.  
W85-06330 1812 5B

**INTERNATIONAL LAB. OF MARINE RADIOACTIVITY, MONACO-VILLE (MONACO).**

Measurement of Particulate Association of Americium in Freshwater,  
W85-04491 1809 5A

**INTERNATIONAL LAB. OF MARINE RADIOACTIVITY, MONTE CARLO (MONACO). OCEANOGRAPHIC MUSEUM.**

Accumulation and Toxicity of Cd, Zn, Ag, and Hg in Four Marine Phytoplankters,  
W85-02758 1806 5C

**INTERNATIONAL REFERENCE CENTRE FOR COMMUNITY WATER SUPPLY AND SANITATION, THE HAGUE (NETHERLANDS).**

Small Community Water Supplies: Technology of Small Water Supply Systems in Developing Countries.  
W85-06930 1812 5F

**INTERNATIONAL RICE RESEARCH INST., LOS BANOS, LAGUNA (PHILIPPINES).**

Transpiration, Leaf Temperature and Water Potential of Rice and Barnyard Grass in Flooded Fields,  
W85-01070 1802 2D

**INTERNATIONAL RICE RESEARCH INST., LOS BANOS, LAGUNA (PHILIPPINES). MULTIPLE CROPPING DEPT.**

Drought Response of Grain Legumes Under Irrigation Gradient: II. Plant Water Status and Canopy Temperature,  
W85-03355 1807 2I

**INTERNATIONAL SCIENCE CONSULTANTS, RINGWOOD (ENGLAND).**

Analysis of Trace Halocarbons in Natural Waters by Simplified Purge and Cryotrap Method,  
W85-00168 1801 5A

**INTERNATIONAL WATER SUPPLY ASSOCIATION, LONDON (ENGLAND).**

Leakage Control,  
W85-02016 1804 3D

**INTEROX CHEMICALS LTD., WIDNES (ENGLAND).**

Tip Leachate Treatment Using Hydrogen Peroxide,  
W85-04522 1809 5D

**INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN, ROCKVILLE, MD.**

Statistical Inference for Point Process Models of Rainfall,  
W85-04794 1809 2B

**INTERUNIVERSITAIR REACTOR INST., DELFT (NETHERLANDS).**

Arsenic in the Dunlin (*Calidris alpina*) from the Dutch Waddenze,  
W85-07148 1812 5B

**IONICS, INC., WATERTOWN, MA.**

Investigation of the Carrying Capacity of the Monocacy River as a Scenic and Recreational Resource, Volume I. Maryland Scenic Rivers: The Monocacy Resource Summary Report,  
W85-00607 1802 6G

Reference Plant for High Temperature Electro-dialysis Desalting of Seawater,  
W85-00608 1802 3A

**IOWA COOPERATIVE FISHERY RESEARCH UNIT, AMES.**

Intraspecific Resource Partitioning by Yellow Perch (*Perca flavescens*) in a Stratified Lake,  
W85-03826 1808 2H

Variation in Polychlorinated Biphenyl Levels in Common Carp from a Primarily Agricultural Drainage,  
W85-04065 1808 5B

**IOWA INST. OF HYDRAULIC RESEARCH, IOWA CITY.**

Effects of Visitation Frequency and Instrument Reliability on the Accuracy of Estimation of River Discharges,  
W85-02825 1806 2E

Numerical Integration of Einstein's Integrals, I1 and I2,  
W85-03795 1808 2J

**IOWA STATE CONSERVATION COMMISSION, LEWIS, SOUTHWEST DISTRICT OFFICE.**

Correlation of Total and 'Angler-Acceptable' Crappie Standing Stocks with Lake Basin Slopes and Siltation Indexes,  
W85-03832 1808 2H

**IOWA STATE UNIV., AMES. DEPT. OF AGRICULTURAL ECONOMICS.**

Determination of Crop Production Loss Due to Inadequate Drainage in a Large Watershed,  
W85-02987 1806 6B

**IOWA STATE UNIV., AMES. DEPT. OF AGRICULTURAL ENGINEERING.**

Sensitivity Analysis of a Drainage Simulation Model,  
W85-01373 1803 2A

Water and Pesticide Volatilization from a Waste Disposal Pit,  
W85-03389 1807 5B

Runoff and Sediment Transport Within and From Small Agricultural Watersheds,  
W85-04734 1809 2J

Simulated Effects of Fertilizer Management on Nitrate Loss with Tile Drainage Water for Continuous Corn,  
W85-04739 1809 6G

**IOWA STATE UNIV., AMES. DEPT. OF AGRONOMY.**

Differences in Water Uptake Rates of Soybean Roots Associated with Time and Depth,  
W85-00218 1801 2I

## ORGANIZATIONAL INDEX

### JAPAN BOTTOM SEDIMENT MANAGEMENT ASSOCIATION, TOKYO.

Shallow-Layer Soil Water Potential Changes Due to Waterdrop Impact, W85-00752	1802 2G	Application of the Geostatistical Approach to the Inverse Problem in Two-Dimensional Groundwater Modeling, W85-02169	1804 2F	ISTITUTO GUIDO DANEGANI S.P.A., NOVARA (ITALY).
<b>IOWA STATE UNIV., AMES, DEPT. OF ANIMAL ECOLOGY.</b>		Wedge-Wire Intake Screens for Shallow Sand-Bed River, W85-02268	1805 8A	Differential Pulse Polarographic Determination of Nitrilotriacetic Acid in Natural Waters and Waste Water Effluents, W85-06254
Calculation of Phosphorus and Nitrogen Loadings to Natural and Artificial Lakes, W85-02622	1805 2H	Hydraulic Model Study of Pump Sump Design, W85-02454	1805 8C	1812 5A
Wind Resuspension of Sediments in a Prairie Lake, W85-03827	1808 2J	Secondary Current and River-Meander Formation, W85-03035	1806 2E	<b>ISTITUTO ITALIANO DI IDROBIOLOGIA, NOVARA.</b>
Influence of Reservoir Transit on Riverine Algal Transport and Abundance, W85-03829	1808 2H	Tangential Vortex-Inlet, W85-03783	1808 8B	Hydrochemistry of High Altitude Alpine Lakes, W85-04076
<b>IOWA STATE UNIV., AMES, DEPT. OF BOTANY.</b>		<b>IRRIGATION AND INDUSTRIAL DEVELOPMENT CORP., NEW YORK.</b>		1808 2H
Response of Plant Species to Burial in Three Types of Alaskan Wetlands, W85-00248	1801 2L	Improvement and Sensitivity Analysis of the CORNGRO Model, W85-01304	1803 3F	Nutrient Load, Trophic Condition and Restoration Prospects of Lake Maggiore, W85-06883
<b>IOWA STATE UNIV., AMES, DEPT. OF CIVIL ENGINEERING.</b>		<b>IRRIGATION DEPT., LAMPANG (THAILAND).</b>		1812 2H
Concepts for Energy-Efficient Irrigation System Design, W85-01504	1803 8C	Simulation of Channel Steepening in the Marala-Ravi Link Canal, W85-06580	1812 2J	<b>IT CORP., KNOXVILLE, TN.</b>
Effects of Predrilling and Layered Soils on Piles, W85-04383	1808 8D	<b>ISK ENVIRONMENTAL RESEARCH, SANICHTON (BRITISH COLUMBIA).</b>		Stripping of Organic Chemicals in Biological Treatment Processes, W85-02767
Flow over Side Weirs in Circular Channels, W85-04401	1808 8B	Effect of Wood Waste Dumping on Organic Matter in Seawater and Surficial Sediments of Alberni Inlet, British Columbia, W85-02533	1805 5C	1806 5D
Slow Sand and Direct In-Line Filtration of a Surface Water, W85-04406	1808 5F	<b>ISRAEL OCEANOGRAPHIC AND LIMNOLOGICAL RESEARCH LTD., HAIFA.</b>		<b>ITAIPU BINACIONAL, RIO DE JANEIRO (BRAZIL).</b>
Water Management for Small Urbanizing Watershed, W85-06026	1811 4A	Relative Contributions of Net and Nanno Phytoplankton to Primary Production in Lake Kinneret (Israel), W85-00868	1802 2H	Behaviour of Hydraulic Machines Under Steady Oscillations, Part One, W85-01554
Characterization and Treatment of Condensates from High Efficiency Appliances, W85-07121	1812 5D	<b>JACOBS ENGINEERING GROUP, INC., PASADENA, CA.</b>		1803 8C
<b>IOWA STATE WATER RESOURCES RESEARCH INST., AMES.</b>		<b>JAGIELLONIAN UNIV., KRAKOW (POLAND). DEPT. OF HYDROBIOLOGY.</b>		Tightening Regulations for Hazardous Waste Management: Mandates and Compliance Strategies, W85-05768
Surface Mine Lakes: An Important Water Resource for Iowa, W85-00812	1802 3B	Analysis of Ciliata from Polluted Sector of the River Drwinka on the Basis of Binary Data, W85-00223	1801 2	1810 6E
<b>IOWA UNIV., IOWA CITY.</b>		<b>JAGIELLONIAN UNIV., KRAKOW (POLAND). INST. OF ENVIRONMENTAL BIOLOGY.</b>		Concentrations of Cadmium and Lead in the Body of Some Macrofauna Species from Five Streams of Southern Poland, W85-02509
Eulerian Modeling of the Transport and Chemical Processes Affecting Long-Range Transport of Sulfur Dioxide and Sulfate, W85-05315	1810 5B	Effect of Waste Water on Ciliate Communities in the Biala Przemsza River, W85-00227	1801 2H	1805 5C
<b>IOWA UNIV., IOWA CITY, COLL. OF DENTISTRY.</b>		<b>JAMES COOK UNIV. OF NORTH QUEENSLAND, TOWNSVILLE (AUSTRALIA). DEPT. OF CHEMISTRY.</b>		<b>JAGIELLONIAN UNIV., KRAKOW (POLAND). DEPT. OF ENVIRONMENTAL BIOLOGY.</b>
Fluoride Analyses of Patient Water Supplies Requested by North Carolina Health Professionals, W85-03748	1807 5F	Residues Related to Agricultural Chemicals in the Groundwaters of the Burdekin River Delta, North Queensland, W85-04039	1808 5B	Effect of Waste Water on Ciliate Communities in the Biala Przemsza River, W85-00227
<b>IOWA UNIV., IOWA CITY, DEPT. OF GEOGRAPHY.</b>		<b>JAMES COOK UNIV. OF NORTH QUEENSLAND, TOWNSVILLE (AUSTRALIA). DEPT. OF CIVIL AND SYSTEMS ENGINEERING.</b>		1801 2H
Optimal Sampling Strategies for Source Identification in Environmental Episodes, W85-06283	1812 5A	Initial Transients in Long Wave Computations, W85-03008	1806 8B	
<b>IOWA UNIV., IOWA CITY, DIV. OF ENERGY ENGINEERING.</b>		Transition Zone Width in Ground Water on Ocean Atolls, W85-06041	1811 2F	
Modeling Impacts of Acid Precipitation for Northeastern Minnesota, W85-05320	1810 2K	<b>JAMES COOK UNIV. OF NORTH QUEENSLAND, TOWNSVILLE (AUSTRALIA). SCHOOL OF BIOLOGICAL SCIENCES.</b>		
<b>IOWA UNIV., IOWA CITY, INST. OF HYDRAULIC RESEARCH.</b>		Macroinvertebrate Assemblages in Channelized and Unchannelized Sections of the Bunyip River, Victoria, W85-00788	1802 6G	
Evaluation of the Efficiency of Streamflow Data Collection Strategies for Alluvial Rivers, W85-01170	1803 2E	<b>JAPAN BOTTOM SEDIMENT MANAGEMENT ASSOCIATION, TOKYO.</b>		
Dispersion Simulation in Two-Dimensional Tidal Flow, W85-01558	1803 5B	Summer Peak of Nutrient Concentrations in Lake Water, W85-02098	1804 5B	

## ORGANIZATIONAL INDEX

### JAWAHARLAL NEHRU UNIV., NEW DELHI (INDIA). MICROBIOLOGICAL LAB.

#### JAWAHARLAL NEHRU UNIV., NEW DELHI (INDIA). MICROBIOLOGICAL LAB.

Influence of Physico-Chemical Factors on the Coliform Bacteria in a Closed-Lake Water System,  
W85-01672

1804 2H

Distribution and Periodicity of Total, Faecal Coliform Bacteria in an Aquatic Ecosystem,  
W85-01675

1804 5B

#### JAWAHARLAL NEHRU UNIV., NEW DELHI (INDIA). SCHOOL OF ENVIRONMENTAL SCIENCES.

Comparison of Seasonal and Diurnal Patterns of Some Physico-Chemical Parameters of the Open and Closed Parts of Loktak Lake, Manipur, India,  
W85-05444

1810 2H

#### JEMBER UNIV. (INDONESIA). FACULTY OF AGRICULTURE.

Aggregate Breakdown in Relation to Raindrop Energy,  
W85-06747

1812 2G

#### JET PROPULSION LAB., PASADENA, CA.

Junction Angles in Drainage Networks,  
W85-02963

1806 2E

Technical Support Package on Solar-Powered Water Distillation,  
W85-06916

1812 5F

#### JODHPUR UNIV. (INDIA). DEPT. OF BOTANY.

Survival Adaptations of Three Euphorbia spp. in Arid Ecosystem,  
W85-06371

1812 2I

#### JOENSUU UNIV. (FINLAND). DEPT. OF BIOLOGY.

Substance Discharges in the Drainage Area of the Liminka Bay,  
W85-02390

1805 5B

Heavy Metals and High Pup Mortality in the Saimaa Ringed Seal Population in Eastern Finland,  
W85-02839

1806 5C

#### JOENSUU UNIV. (FINLAND). KARELIAN INST.

Limnological Effects of Peatland Drainage and Fertilization as Reflected in the Varved Sediment of a Deep Lake,  
W85-00982

1802 2H

Varve-Dated Eutrophication History of a Small Lake,  
W85-05628

1810 5C

#### JOHNS HOPKINS UNIV., BALTIMORE, MD. HYDRODYNAMIC PRESSURE ON SHORT-LENGTH GRAVITY DAMS.

W85-07102

1812 8A

#### JOHNS HOPKINS UNIV., BALTIMORE, MD. DEPT. OF GEOGRAPHY AND ENVIRONMENTAL ENGINEERING.

Patterns of Recent Sediment Accumulation in Chesapeake Bay (Virginia-Maryland, U.S.A.) Tributaries,  
W85-01105

1802 2L

Competitive Adsorption of Phenols on Activated Carbon,  
W85-02820

1806 5D

Theoretical Analysis of the Role of Groundwater Flow in the Genesis of Stratabound Ore Deposits. 1. Mathematical and Numerical Model,  
W85-03672

1807 2F

Theoretical Analysis of the Role of Groundwater Flow in the Genesis of Stratabound Ore Deposits. 2. Quantitative Results,  
W85-03673

1807 2K

Origins and Effects of Coagulation in Lakes,  
W85-04075

1808 2H

Lake Ontario Oxygen Model. 1. Model Development and Application,  
W85-04801

1809 2H

Lake Ontario Oxygen Model. 2. Errors Associated with Estimating Transport Across the Thermocline,  
W85-04802

1809 2H

Deterministic Linear Programming Model for Acid Rain Abatement,  
W85-06017

1811 5G

#### JOHNS HOPKINS UNIV., BALTIMORE, MD. DEPT. OF SANITARY ENGINEERING AND WATER RESOURCES.

Water Resources Management: International Challenge and Opportunities,  
W85-03129

1806 6B

#### JOHNS HOPKINS UNIV., BALTIMORE, MD. MCCOLLUM-PRATT INST.

Catastrophic Anoxia in the Chesapeake Bay in 1984,  
W85-06159

1811 2L

#### JOHNS HOPKINS UNIV., LAUREL, MD. APPLIED PHYSICS LAB.

Runoff from Utility Waste Landfill to be Recycled from Detention Basin to Scrubber Make-Up,  
W85-01849

1804 5D

Uptake, Elimination, and Metabolism of 14C-Picric Acid and 14C-Picramic Acid in the American Oyster (*Crassostrea virginica*),  
W85-03221

1807 5B

Comparison of Avoidance Responses of an Estuarine Fish, *Fundulus heteroclitus*, and Crustacean, *Palaeomonetes pugio*, to Bis(Tri-N-Butyltin)Oxide,  
W85-06887

1812 5C

#### JOHNS HOPKINS UNIV., SHADY SIDE, MD. AQUATIC ECOLOGY SECTION.

Avoidance Responses of Estuarine Fish Exposed to Heated-Decolorized Power Plant Effluents,  
W85-01127

1803 5C

Evaluation of the Potential Toxicity of Treated Bleached Kraft Mill Effluent To Striped Bass (*Morone saxatilis* Walbaum) Larvae Exposed Through Metamorphosis to the Juvenile Stage,  
W85-02908

1806 5C

#### JOHNS HOPKINS UNIV., SHADY SIDE, MD. CHESAPEAKE BAY INST.

Effects of Organic and Inorganic Chemical Contaminants on Fertilization, Hatching Success, and Larval Survival of Striped Bass,  
W85-03225

1807 5C

#### JOHNSON STATE COLL., VT.

Effect of Pond Storage on the Hydrologic and Nutrient Output of a Forested Watershed in Northern Vermont,  
W85-00612

1802 5A

#### JORDAN (EDWARD C.) CO., INC., PORTLAND, ME.

Evaluation of Ion Exchange Technology for Toxic and Nonconventional Pollutant Reduction in Bleach Plant,  
W85-05264

1810 5D

Transport and Transformations of Organic Chemicals,  
W85-06451

1812 5B

Health and Environmental Aspects of Setting Cleanup Criteria,  
W85-06452

1812 5G

#### JORDAN UNIV., AMMAN. DEPT. OF HYDROLOGY AND IRRIGATION ENGINEERING.

Management Contours for Border Irrigation,  
W85-03821

1808 3F

#### JORDAN UNIV., AMMAN. WATER RESEARCH AND STUDY CENTER.

Isotopic Analyses and Hydrochemistry of the Thermal Springs along the Eastern Side of the Jordan Dead Sea - Wadi Araba Rift Valley,  
W85-02462

1805 2F

#### JOS UNIV. (NIGERIA). DEPT. OF BOTANY.

Diurnal Variations of Physico-Chemical Factors and Planktonic Organisms in Jos Plateau (West Africa) Water Reservoir,  
W85-00544

1802 2H

Limnology and Plankton Periodicity of Jos Plateau Water Reservoir, Nigeria, West Africa,  
W85-02546

1805 2H

Limnological Aspects of Plankton Variation and Water Characteristics of a Tropical West African Reservoir,  
W85-05643

1810 2H

#### JÓZSEF ATTILA UNIV., SZEGED (HUNGARY). DEPT. OF ANTHROPOLOGY.

Fluoride Content of Drinking Water and the Menarcheal Age,  
W85-02475

1805 5C

#### JÓZSEF ATTILA UNIV., SZEGED (HUNGARY). DEPT. OF BOTANY.

Algalogical Investigations in the Waters of the Tisza Basin at Alpar,  
W85-03115

1806 5C

Hydroecology of the Grass-Associations Found at the Dams Along the Upper-Tisza,  
W85-03118

1806 21

#### JYVAESKYLÄE UNIV. (FINLAND). DEPT. OF BIOLOGY.

Periphyton Growth and Diatom Community Structure in a Cooling Water Pond,  
W85-01474

1803 5C

Phytoplankton Primary Production in a Eutrophic Cooling Water Pond,  
W85-04063

1808 2H

Acute Toxicity of Some Chlorinated Phenolic Compounds to *Seleniastrum capricornutum* and Phytoplankton,  
W85-04366

1808 5C

Comparison of the *Seleniastrum* Bottle Test and the Natural Phytoplankton Assay in Algal Toxicity Tests,  
W85-04615

1809 5A

#### JYVAESKYLÄE UNIV. (FINLAND). INST. FOR ENVIRONMENT RESEARCH.

Macrophyte Vegetation at the River Kyronjoki Estuary in 1982,  
W85-06297

1812 2L

#### K.L.D.A.V. COLL., ROORKEE (INDIA). DEPT. OF ZOOLOGY.

Problem of Prawn Fisheries in Egypt,  
W85-03235

1807 5C

Studies on the Toxicity of Pentachlorophenol, Sodium-pentachlorophenate and Phenol to a Pulmonate Snail *Lymnaea luteola* (Lamarck),  
W85-04059

1808 5C

#### K-V ASSOCIATES, INC., FALMOUTH, MA.

Darcian Flow Characteristics Upgradient of a Kettle Pond Determined by Direct Ground Water Flow Measurement,  
W85-03193

1806 2F

**ORGANIZATIONAL INDEX**  
**KARLSRUHE UNIV. (GERMANY, F.R.). INST. FUER SIEDLUNGSWASSERWIRTSCHAFT.**

<b>KAKATIYA UNIV., WARANGAL (INDIA).</b> <b>DEPT. OF ZOOLOGY.</b> Effect of Dimecron, Rogor and Cuman L on AChE and Phosphatases in Fresh Water Mussel, <i>Lamellidens marginalis</i> (Lamarck.), W85-04377	1808 5C	Ammonium Ion, Humic Materials, and Trihalomethane Potential in Northeastern Kansas Ground Waters, W85-03155	1806 2K	<b>KAO CORP., TOCHIGI (JAPAN). RESEARCH LABS.</b> Existence of Anionic Surfactants in River (in Japanese), W85-00191	1801 5A
<b>KALYANI UNIV. (INDIA). DEPT. OF ZOOLOGY.</b> Spatial and Seasonal Variations of Phosphate Solubilizing Bacteria in Fish Ponds of Varying Fish Farming Managements, W85-03233	1807 2H	Role of Specific Yield in Ground-Water Recharge Estimations: A Numerical Study, W85-04640	1809 2F	Biodegradation of Linear Alkylbenzene Sulfonates and Soap in River Water (in Japanese), W85-03508	1807 5B
Ammonification as Affected by the Oxygen Level of Water, W85-05615	1810 5C	Aquifer-Parameter Evaluation from Variable-Rate Pumping Tests Using Convolution and Sensitivity Analysis, W85-05842	1810 2F	<b>KAPUR AND ASSOCIATES, INC., WAUKESHA, WI.</b> Effect of Anaerobic Conditions on Activated Sludge Settleability, W85-05555	1810 5D
<b>KAMAN TEMPO, DENVER, CO.</b> Bailing and Construction Considerations for Deep Aquifer Monitoring Wells on Western Oil Shale Leases, W85-00304	1801 5A	<b>KANSAS STATE UNIV., MANHATTAN, COLL. OF ARCHITECTURE AND DESIGN.</b> Water for Energy in the Northeastern Region of the United States: Legal Issues and Concerns, W85-00939	1802 6E	<b>KARL-MARX-UNIV., LEIPZIG (GERMAN D.R.). SEKTION BIOWISSENSCHAFTEN.</b> Qualitative and Quantitative Entomofaunistic Investigation of an Opencast Residual Lake near Leipzig (GDR), W85-04906	1809 2H
<b>KAMAN TEMPO, SANTA BARBARA, CA.</b> Vadose Zone Monitoring Concepts for Hazardous Waste Sites, W85-00314	1801 5A	<b>KANSAS STATE UNIV., MANHATTAN, DEPT. OF AGRONOMY.</b> Stress Tolerance in Soybeans. I. Evaluation of Three Screening Techniques for Heat and Drought Tolerance, W85-06206	1812 2I	<b>KARLOVA UNIV., PRAGUE (CZECHOSLOVAKIA). DEPT. OF NUCLEAR PHYSICS.</b> Dispersion of Radioactive Pollution in Surface Water, W85-05605	1810 5B
<b>KANAZAWA INST. OF TECH. (JAPAN).</b> Prediction of Combined Snowmelt and Rainfall Runoff, W85-05778	1810 2E	<b>KANSAS STATE UNIV., MANHATTAN, DEPT. OF CIVIL ENGINEERING.</b> Quantifying the Relative Performance of Alternative Measures for Fulfilling Instream Uses in the Plains Environment, W85-02107	1804 6B	<b>KARLOVA UNIV., PRAGUE (CZECHOSLOVAKIA). DEPT. OF GEOLOGY.</b> Relation Between the Composition of Gravel Fragments of the Jizera River and the Geology of its Basin (Vzlah Mezi Slozenim Ulonku Fluvialich Sedimentu Jizery a Geologickou Stavbou Jejihho Povodi), W85-05859	1811 2J
<b>KANAZAWA INST. OF TECH. (JAPAN).</b> <b>DEPT. OF CIVIL ENGINEERING.</b> Note on Boundary Effects on Stream Meandering, W85-01275	1803 2E	<b>KANSAS STATE UNIV., MANHATTAN, DEPT. OF GEOGRAPHY.</b> Remote Sensing Approach for Modeling Water Resource Use, W85-03145	1806 7B	<b>KARLOVA UNIV., PRAGUE (CZECHOSLOVAKIA). DEPT. OF PHYSICAL CHEMISTRY.</b> Isochophoretic Determination of Anionic and Cationic Species in Well and Surface Waters, W85-05910	1811 5A
Flow Analyses in Idealized Rubble-Mound Breakwater, W85-02271	1805 8B	<b>KANSAS STATE UNIV., MANHATTAN, DIV. OF BIOLOGY.</b> Water Relations and Growth of Three Grasses During Wet and Drought Years in a Tallgrass Prairie, W85-04068	1808 2I	<b>KARLSRUHE UNIV. (GERMANY, F.R.).</b> Optimization and Control of the Activated Sludge Treatment Process by Quasicontinuous Operation: Concept, Strategy and Results, W85-05286	1810 5D
<b>KANSAI UNIV., OSAKA (JAPAN). DEPT. OF CIVIL ENGINEERING.</b> Quantification of Accumulated Loads on Road Surfaces and Their Runoff Characteristics, W85-01421	1803 5B	Response of Bacteria Isolated from a Pristine Prairie Stream to Concentration and Source of Soluble Organic Carbon, W85-04266	1808 2K	<b>KARLSRUHE UNIV. (GERMANY, F.R.). DEPT. OF ZOOLOGY II.</b> Comparison of Physiological Changes in Carp, <i>Cyprinus carpio</i> , Induced by Several Pollutants at Sublethal Concentrations. I. The Dependency on Exposure Time, W85-06744	1812 5C
<b>KANSAS AGRICULTURAL EXPERIMENT STATION, MANHATTAN. DEPT. OF AGRONOMY.</b> Windbreak Effects on Soil Water and Wheat Yield, W85-03365	1807 3F	Patterns of Diel Oxygen Change in Ponds of Tropical India, W85-05654	1810 2H	<b>KARLSRUHE UNIV. (GERMANY, F.R.). INST. FUER SIEDLUNGSWASSERWIRTSCHAFT.</b> Water Resources Development and Management Plans; Part 7: Time Variable Effluents in Water Quality Computations - An Aspect of the Water Quality Management Study 'Bewirtschaftungsplan Leine' (Bewirtschaftungsplane; Teil VII: Guteberechnungen mit zeitvariante Schmutzwassereinleitungen - ein Teilespekt der Pilotstudie Bewirtschaftungsplan Leine), W85-00967	1802 5B
<b>KANSAS AGRICULTURAL EXPERIMENT STATION, MANHATTAN.</b> <b>EVAPOTRANSPIRATION LAB.</b> Assessing Solar Energy and Water Use Efficiencies in Winter Wheat: A Case Study, W85-01058	1802 3F	<b>KANSAS UNIV., LAWRENCE. DEPT. OF CIVIL ENGINEERING.</b> Field Determination of Aquifer Thermal Energy Storage Parameters, W85-00355	1801 2F	Comparison of Dynamic Flow Routing Methods for Urban Drainage Systems (Vergleich hydrodynamischer Berechnungsansätze zur Abflussmittlung in Kanalnetzen), W85-04627	1809 8B
Automating a Class A Evaporation Pan for Semi-Continuous Recording, W85-01065	1802 2D	Average Annual Fulfillment of Instream Uses, W85-03066	1806 6D	Water Resources Development and Management Plans, Part VIII: Water-Quality Control Models - An Aspect of the Water-Quality Management Study 'Bewirtschaftungsplan Leine' (Bewirtschaftungsplane, Teil VIII: Entscheidungsmodelle in der Wassergutewirtschaft - ein Teilespekt der Pilotstudie Bewirtschaftungsplan Leine), W85-06156	1811 5G
Water Relations of Drought-Resistant and Drought-Sensitive Wheat Cultivars Sprinkled with Saline Water, W85-05168	1810 3F	<b>KANTON AARGAU, AARAU (SWITZERLAND). INFORMATIONS- UND DOKUMENTATIONS-DIENST.</b> Origin of Nitrates in Groundwater of the Bunz Valley (Woher stammen die Nitrate im Grundwasser des Bunztals), W85-01856	1804 5B	<b>KANTONALES AMT FUER GEWASSERSCHUTZ, SANKT GALLEN (SWITZERLAND).</b> Pumps for Liquids, Especially for Wastewater (Pumpen für Flüssigkeiten, insbesondere für Abwasser), W85-01864	1804 8C
<b>KANSAS STATE GEOLOGICAL SURVEY, LAWRENCE.</b> Analysis of Leaky Aquifer Pumping Test Data: An Automated Numerical Solution Using Sensitivity Analysis, W85-00315	1801 2F	Sensitivity Analysis and the Ground-Water Inverse Problem, W85-00350	1801 2F	Comparison of Physiological Changes in Carp, <i>Cyprinus carpio</i> , Induced by Several Pollutants at Sublethal Concentrations. II. The Dependency on Exposure Time, W85-06745	1812 5C
Identification of an Optimal Groundwater Management Strategy in a Contaminated Aquifer, W85-03141	1806 4B	KANTONALES AMT FUER GEWASSERSCHUTZ, SANKT GALLEN (SWITZERLAND). Pumps for Liquids, Especially for Wastewater (Pumpen für Flüssigkeiten, insbesondere für Abwasser), W85-01864	1804 8C	Water Resources Development and Management Plans, Part VIII: Water-Quality Control Models - An Aspect of the Water-Quality Management Study 'Bewirtschaftungsplan Leine' (Bewirtschaftungsplane, Teil VIII: Entscheidungsmodelle in der Wassergutewirtschaft - ein Teilespekt der Pilotstudie Bewirtschaftungsplan Leine), W85-06156	1811 5G

## ORGANIZATIONAL INDEX

### KARLSRUHE UNIV. (GERMANY, F.R.). SONDERFORSCHUNGSBEREICH AUSBREITUNGS-

<b>KARLSRUHE UNIV. (GERMANY, F.R.). SONDERFORSCHUNGSBEREICH AUSBREITUNGS- UND TRANSPORTVORGAENGE IN STROEMUNGEN.</b>	
Experimental Investigation of Intrusive Gravity Currents Entering Stably Stratified Fluids, W85-07028	1812 2H
<b>KASHMIR UNIV., SRINAGAR (INDIA). DEPT. OF BOTANY.</b>	
Sediment Composition, Mud-water Interchanges and the Role of Macrophytes in Dal Lake, Kashmir, W85-04904	1809 2H
Effects of Flushing Rate on Phosphorus Retention in an Aquatic Biome, W85-07147	1812 2H
<b>KASPIISKII NAUCHNO-ISSLEDOVATEL'SKII INST. RYBNOGO KOZYAIStAVa, MAKHACHKALA (USSR).</b>	
Effect of Sodium Naphthalene on Survival and Some Physiological-Biochemical Parameters of Some Fishes, W85-02280	1805 5C
Influence of Mercury Accumulation on Fish, W85-02849	1806 5C
<b>KATADYN PRODUCTS, INC., WALLISELLEN (SWITZERLAND).</b>	
Ultraviolet Disinfection of Water, W85-02020	1804 5D
<b>KATHOLIEKE UNIV. LEUVEN (BELGIUM). LAB. FOR ECOLOGY AND FAUNA MANAGEMENT.</b>	
Effects of Heating on Growth and Condition of Pikeperch ( <i>Lucioperca lucioperca</i> ) in Lowland Ponds Created by Sand Extraction, W85-06788	1812 5C
<b>KATHOLIEKE UNIV. LEUVEN (BELGIUM). SCHOOL OF PUBLIC HEALTH.</b>	
Activated Charcoal and Microflora in Water Treatment, W85-02907	1806 5D
<b>KATHOLIEKE UNIV. NIJMEGEN (NETHERLANDS).</b>	
Plant and Animal Communities in Brackish Supra-Littoral Pools ('Dobben') in the Northern Part of the Netherlands, W85-00408	1801 2L
<b>KATHOLIEKE UNIV. NIJMEGEN (NETHERLANDS). LAB. OF AQUATIC ECOLOGY.</b>	
Impact of Acidification and Eutrophication on Macrophyte Communities in Soft Waters. II. Experimental Studies, W85-01889	1804 5C
Field Studies on the Breakdown of <i>Nuphar lutea</i> (L.) Sm. ( <i>Nymphaeaceae</i> ), and a Comparison of Three Mathematical Models for Organic Weight Loss, W85-05606	1810 2H
<b>KATIVIC REGIONAL ADMINISTRATION, KUUJUUAQ (QUEBEC).</b>	
Utilization of a Microcomputer in the Calculation of Calcocarbonic Equilibrium Curves, W85-04051	1808 5F
<b>KAUNASKII POLITEKHNIChESKII INST. (USSR).</b>	
Artificial Aeration of Rivers in Lithuania, W85-06629	1812 5G
<b>KAWARTHA REGION CONSERVATION AUTHORITY, FENELON FALLS (ONTARIO).</b>	
Rainfall Interception on a Small Forested Watershed within the Kawartha Lakes Region, W85-04578	1809 2I
<b>KAZAKHSKII GOSUDARSTVENNYI UNIV., ALMA-ATA (USSR).</b>	
Downstream Migration of Young Fishes During the Initial Period of Flow Regulation of the Ili River, W85-04089	1808 6G
<b>KAZAN STATE UNIV. (USSR). DEPT. OF VERTEBRATE ZOOLOGY.</b>	
Fluctuation in the Abundance of Commercial Fishes Influenced by Regulated River Discharge (as Exemplified by Kuybyshev Reservoir), W85-02847	1806 6G
<b>KEAN COLL. OF NEW JERSEY, UNION. DEPT. OF CHEMISTRY-PHYSICS.</b>	
Tidal and Seasonal Variations of Sulfate Ion in a New Jersey Marsh System, W85-01848	1804 5B
<b>KELLOGG CORP., LITTLETON, CO.</b>	
Groundwater Protection: A Contrast in State Style, W85-05979	1811 5G
<b>KEMIRA OY, ESPOO (FINLAND). RESEARCH CENTRE.</b>	
Testing the Benthic Lake Type Concept Based on Chironomid Associations in Some Finnish Lakes Using Multivariate Statistical Methods, W85-04069	1808 2H
<b>KENT STATE UNIV., OH. DEPT. OF GEOLOGY.</b>	
Computer Program for a Trilinear Diagram Plot and Analysis of Water Mixing Systems, W85-00360	1801 5A
<b>KENTUCKY DEPT. FOR HEALTH SERVICES, FRANKFORT.</b>	
Waterborne Outbreak of Hepatitis A in Meade County, Kentucky, W85-04658	1809 5C
<b>KENTUCKY DEPT. OF FISH AND WILDLIFE RESOURCES, FRANKFORT.</b>	
Striped Bass Management in Lakes with Emphasis on Management Problems, W85-06402	1812 2H
<b>KENTUCKY FAIR TAX COALITION, LOVELY, KY. WATER RESEARCH OFFICE.</b>	
Modeling Subsurface Stormflow on Steeply Sloping Forested Watersheds, W85-03987	1808 2A
<b>KENTUCKY GEOLOGICAL SURVEY, LEXINGTON.</b>	
Identification of Recharge Areas Using Geochemical Factor Analysis, W85-00345	1801 2F
Impact of Sewerage Irrigation on the Chemistry of Ground and Surface Waters, W85-05378	1810 5E
<b>KENTUCKY UNIV., LEXINGTON.</b>	
Reverse-Osmosis Membrane for Testing Coal-Liquefaction Wastewater, W85-00284	1801 5D
<b>KENTUCKY UNIV., LEXINGTON. DEPT. OF GEOLOGY.</b>	
Regression Analysis of River Profiles, W85-07037	1812 2A
<b>KERALA UNIV., TRIVANDRUM (INDIA). DEPT. OF AQUATIC BIOLOGY AND FISHERIES.</b>	
Nature of Primary Production in a Tropical Backwater of the Southwest Coast of India, W85-04079	1808 2L
<b>KERN COUNTY WATER AGENCY, BAKERSFIELD, CA.</b>	
Limnology of the Kern River (Southern California), W85-03124	1806 2H
<b>KIEL UNIV. (GERMANY, F.R.). INST. FUER MEERESKUNDE.</b>	
Influence of Low Concentrations of Cadmium, Copper and Zinc on Phytoplankton of Natural Water Samples, W85-02803	1806 5C
Trace Metal and PCB Content of Mussels ( <i>Mytilus edulis</i> ) from the Southwestern Baltic Sea, W85-04902	1809 5B
Degradation of Macromolecular Organic Compounds in a Tropical Lagoon (Cienaga Grande, Colombia) and its Ecological Significance, W85-04907	1809 2L

## ORGANIZATIONAL INDEX

KUOPIO UNIV. (FINLAND). DEPT. OF PHYSIOLOGY.

<b>KIEV WATERWORKS AND SEWAGE ADMINISTRATION (USSR).</b>		
Use of a Helium Survey for Evaluating the State of Groundwaters, W85-04110	1808	2F
<b>KILLAM (ELSTON T.) ASSOCIATES, INC., MILLBURN, NJ.</b>		
Executive Summary, Water Pollution Studies, Fox River Valley, Wisconsin, W85-00827	1802	5B
<b>KING ABDULAZIZ UNIV., JEDDAH (SAUDI ARABIA). DEPT. OF MECHANICAL ENGINEERING.</b>		
Performance of Multiple Effect Diffusion Stills, W85-03975	1808	3A
Performance of Multiple Effect Diffusion Stills, W85-07094	1812	3A
<b>KING ABDULAZIZ UNIV., JEDDAH (SAUDI ARABIA). FACULTY OF EARTH SCIENCES.</b>		
Programmable Hand Calculator Programs for Pumping Test Analyses by Least Squares' Method Using Jacob's Modification of Theis' Equation, W85-00301	1801	4B
Type Curves for Large-Diameter Wells Near Barriers, W85-00310	1801	2F
<b>KING ABDULAZIZ UNIV., JEDDAH (SAUDI ARABIA). FACULTY OF MARINE SCIENCE.</b>		
Effect of Pollution on the Coastal Waters of the Red Sea in Front of Jeddah, Saudi Arabia; 1. Environmental Conditions, W85-04710	1809	5C
Effect of Pollution on the Coastal Waters of the Red Sea in Front of Jeddah, Saudi Arabia; 2. Nutrient Salts, W85-04711	1809	5C
<b>KING SAUD UNIV., RIYADH (SAUDI ARABIA). DEPT. OF AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY.</b>		
Municipal Demand for Water in Kuwait: Methodological Issues and Empirical Results, W85-06497	1812	6D
<b>KING SAUD UNIV., RIYADH (SAUDI ARABIA). DEPT. OF CIVIL ENGINEERING.</b>		
Evapotranspiration under Extremely Arid Climates, W85-02447	1805	2D
<b>KING SAUD UNIV., RIYADH (SAUDI ARABIA). DEPT. OF SOIL SCIENCE.</b>		
Heavy Metals Extractable from a Calcareous Soil Treated with Sewage Sludge, W85-01318	1803	5E
<b>KINGSTON POLYTECHNIC, KINGSTON UPON THAMES (ENGLAND). SCHOOL OF CIVIL ENGINEERING.</b>		
Analytical Solution to the Problem of Seepage into Counterfort Drains, W85-05528	1810	2G
<b>KINKI UNIV., OSAKA (JAPAN). DEPT. OF FISHERIES.</b>		
Oxygen Consumption in the Bottom Water Related with the Production of Sulfides in the Bottom Sediments, W85-00139	1801	2K
<b>KINNERET LIMNOLOGICAL LAB., TIBERIAS (ISRAEL).</b>		
Impact of Zooplankton Status on the Management of Lake Kinneret (Israel), W85-02410	1805	2H
<b>T2-Coliphage Uptake By Mosquito Larvae, W85-04493</b>	1809	5D
<b>KIRKHAM, MICHAEL AND ASSOCIATES, OMAHA, NE.</b>		
Rotating Biological Contractors Treating Combined Domestic and Cheese-Processing Wastewaters, W85-05227	1810	5D
<b>KITAKYUSHU MUNICIPAL INST. OF ENVIRONMENTAL HEALTH SCIENCES (JAPAN).</b>		
Determination of Trace Azaarenes in Water by Gas Chromatography and Gas Chromatography-Mass Spectrometry, W85-00165	1801	5A
Determination of Trialkyl and Triaryl Phosphates in Environmental Samples, W85-04497	1809	5B
Biological Wastewater Treatment in a Fluidized Bed Reactor, W85-07110	1812	5D
<b>KITAMI INST. OF TECH., HOKKAIDO (JAPAN).</b>		
Natural Convection in an Inclined Square Cavity in Regions of Density Inversion of Water, W85-01519	1803	8B
<b>KLEINFELDER (J.H.) AND ASSOCIATES, FRESNO, CA.</b>		
Simple Analytical Solutions for the HP41CV Programmable Calculator, W85-02695	1805	4B
<b>KOBE UNIV. (JAPAN). DEPT. OF CHEMICAL ENGINEERING.</b>		
Thermodynamic Properties of R13 (CCIF3), R23 (CHF3), R152a (C2H4F2) and Propane Hydrates for Desalination of Sea Water, W85-03890	1808	3A
<b>KOCHI UNIV. (JAPAN).</b>		
Use of Polyurethane Grouts and Grout Tubes, W85-04031	1808	8F
<b>KOCHI UNIV. (JAPAN). LAB. OF FISHERIES ENGINEERING.</b>		
Water Flow Characteristics of Uranouchi Bay During the Summer Stratification Season (in Japanese), W85-04070	1808	2L
<b>KOHIMA SCIENCE COLL. (INDIA). DEPT. OF ZOOLOGY.</b>		
Studies on Some Lotic Systems in the Northeastern Hill Regions of India, W85-00799	1802	2H
<b>KOMENSKHO UNIV., BRATISLAVA (CZECHOSLOVAKIA). DEPT. OF ANALYTICAL CHEMISTRY.</b>		
Determination of Inorganic Anions in River Waters by Column-Coupling Capillary Isotachophoresis, W85-02304	1805	7B
<b>KONAN UNIV., KOBE (JAPAN). DEPT. OF CHEMISTRY.</b>		
Studies on Chemical Species Dissolved in Groundwaters from the Neogene Strata. A Comparison between Shallow and Deep Groundwaters (in Japanese), W85-00537	1802	2F
Studies on Chemical Species Dissolved in Shallow Groundwaters of Arima Rhyolite Strata, W85-02251	1805	2K
<b>KONINKLIJKE/SHELL-LAB., AMSTERDAM (NETHERLANDS).</b>		
Effect of Crystallinity and Swelling on the Permeability and Selectivity of Polymer Membranes, W85-02552	1805	3A
<b>KONSTANZ UNIV. (GERMANY, F.R.). LIMNOLOGICAL INST.</b>		
Toxicity Warning Monitor Using the Weakly Electric Fish, Gnathonemus petersi, W85-03546	1807	5A
Impact of Sedimentation on the Phosphorus Content of the Euphotic Zone of Lake Constance, W85-04555	1809	2H
Specific Uptake Rates of Amino Acids by Attached and Free-Living Bacteria in a Mesotrophic Lake, W85-07139	1812	2H
<b>KORROSIONSCENTRALEN ATV., GLOSTRUP (DENMARK).</b>		
Control of Metal Contaminants in Drinking Water in Denmark, W85-01993	1804	5F
<b>KRAFTWERKE OBERHASLIS A.G., INNERKIRCHEN (SWITZERLAND).</b>		
Official Start-up of the Oberaar-Grimsel Pumped Power Station (Pumpspeicherwerk Oberaar-Grimsel offiziell in Betrieb), W85-01265	1803	8A
<b>KREBS (PAUL B.) AND ASSOCIATES, INC., BIRMINGHAM, AL.</b>		
Computer Modeling in Water System Planning and Design, W85-01906	1804	5F
<b>KROUGER (I.) A/S, SOEBORG (DENMARK).</b>		
Nitrification and Phosphorus Removal From Trickling Filter Effluents, W85-03646	1807	5D
<b>KRUPP (FRIED.) G.M.B.H., ESSEN (GERMANY, F.R.).</b>		
Support Biologics in Waste Water Technology (Tragerbiologien in der Abwassertechnik), W85-02958	1806	5D
<b>KUMAMOTO UNIV. (JAPAN). FACULTY OF ENGINEERING.</b>		
Interrelationship Between Some Environmental Factors of Riverbed Gravels and Pollution Index of Bottom Fauna in the River, W85-03509	1807	5C
<b>KUMAUN UNIV., NAINI TAL (INDIA). DEPT. OF ZOOLOGY.</b>		
Organal Damage Caused by Aldicarb to a Freshwater Teleost Barbus conchonius Hamilton, W85-01091	1802	5C
Mercury-Induced Blood Anomalies in the Freshwater Teleost, W85-05692	1810	5C
Ecology of the Limnofauna in the River Kosi of the Kumaun Himalaya (Uttar Pradesh), W85-06011	1811	2H
Species Composition of Zooplankton in Two Kumaun Himalayan Lakes (U.P., India), W85-06446	1812	2H
<b>KUNGHLIGA VETENSKAPS AKADEMIEN, STOCKHOLM (SWEDEN).</b>		
<b>BEIJERINSTITUTET.</b>		
Causes, Consequences and Remedies of Soil Erosion in Kenya, W85-00129	1801	4D
<b>KUOPIO UNIV. (FINLAND). DEPT. OF PHYSIOLOGY.</b>		
Acidification of Water and Extrahepatic Bio-transformation in Fish, W85-02591	1805	5C

## ORGANIZATIONAL INDEX

### KUOPIO WATER DISTRICT OFFICE (FINLAND).

**KUOPIO WATER DISTRICT OFFICE (FINLAND).**  
Experiences Gained in Restoring a Wilderness River,  
W85-02386 1805 5G

### KURUKSHETRA UNIV. (INDIA). DEPT. OF ZOOLOGY.

Note on Eutrophic Characteristics of Two Freshwater Bodies of Kurukshetra, India,  
W85-06868 1812 2H

### KUWAIT UNIV., SAFAT. DEPT. OF CHEMICAL ENGINEERING.

Removal of Fine Oily Hazes from Wastewater Using Deep Fibrous Bed Coalescer,  
W85-01160 1803 5D

### KUWAIT UNIV., SAFAT. DEPT. OF CIVIL ENGINEERING.

Enhanced Activated Sludge Waste Treatment by the Addition of Adsorbents,  
W85-03049 1806 5D

### KUWAIT UNIV., SAFAT. DEPT. OF GEOLOGY.

Ground-Water Chemistry of Dibdiba Formation, North Kuwait,  
W85-01528 1803 2K

### KWARA STATE COLL. OF TECHNOLOGY, ILORIN (NIGERIA). SCHOOL OF MINES.

Locating Contaminants in a Ground-Water System by Direct Current Resistivity Technique,  
W85-06015 1811 5A

### KYMI PROVINCIAL ENVIRONMENTAL CONSERVATION BUREAU, KOUVOLA (FINLAND).

Bark Chip Decomposition Latrines,  
W85-05208 1810 5D

### KYOTO CITY INST. OF PUBLIC HEALTH (JAPAN).

Mutagenic Activity in Organic Concentrate from Nishitakase River Water in Kyoto City, and its Fractions Separated by Using Liquid-Liquid Fractionation and Thin Layer Chromatography,  
W85-04980 1810 5A

### KYOTO UNIV., BEPPU (JAPAN). GEOPHYSICAL RESEARCH STATION.

Influences of Human Excretion on Water Quality in the Minami-Asakawa River,  
W85-00934 1802 5B

### KYOTO UNIV. (JAPAN). DEPT. OF CHEMISTRY.

Ion Chromatographic Determination of Silicic Acid in Natural Water,  
W85-04623 1809 2K

### KYOTO UNIV. (JAPAN). DEPT. OF SANITARY ENGINEERING.

Suppression of Actinomycete Scum Production - A Case Study at Senboku Wastewater Treatment Plant, Japan,  
W85-03641 1807 5D

### KYOTO UNIV. (JAPAN). DIV. OF TROPICAL AGRICULTURE.

Studies on a Freshwater Red Tide in Lake Biwa - I. Changes in the Distribution of Phytoplankton and Nutrients (in Japanese),  
W85-00541 1802 5C

Studies on a Freshwater Red Tide in Lake Biwa - II. Relation between Occurrence of Red Tide and Environmental Factors (in Japanese),  
W85-00542 1802 2H

### KYOTO UNIV., OTSU (JAPAN). OTSU HYDROBIOLOGICAL STATION.

Seasonal Variations of Dominant Phytoplankton, Chlorophyll a and Nutrient Levels in the Pelagic Regions of Lake Biwa,  
W85-00188 1801 2H

Effects of Bottom Dredging on Some Environmental Factors and Benthic Animals in the South Basin of Lake Biwa (in Japanese),  
W85-00528 1802 2H

Effect of Nutrient Enrichment on the Natural Phytoplankton Community of Lake Biwa Maintained in Glass Bottles,  
W85-03510 1807 5C

### KYUSHU UNIV., FUKUOKA (JAPAN). DEPT. OF CHEMISTRY.

Microdetermination of Silicic Acid in Water by Gel-Phase Colorimetry with Molybdenum Blue,  
W85-03340 1807 5A

### LA MOREAUX (P.E.) AND ASSOCIATES, INC., TUSCALOOSA, AL.

Hydrogeology of Wadi Al-Yammaniyyah, Saudi Arabia,  
W85-01527 1803 2F

### LABORATOIRE CENTRAL D'HYDRAULIQUE DE FRANCE, MAISONS-ALFORT.

Ecological Problems Related to the Loire Estuary Development,  
W85-00575 1802 6G

### LABORATOIRE DE GLACIOLOGIE ET GEOPHYSIQUE DE L'ENVIRONNEMENT, GRENOBLE (FRANCE).

Atmospheric Trace Metals in the Snow Layers Deposited at the South Pole from 1928 to 1977,  
W85-00244 1801 2K

Atmospheric Heavy Metals in High Altitude Surface Snows From Mont Blanc, French Alps,  
W85-04501 1809 5B

Mechanisms of Plastic Deformation of Polycrystalline Ice (Mechanismes de la deformation plastique de la glace polycristalline),  
W85-05018 1810 2C

Measurements of Glacial Fluctuations in the French Alps; Collection of Data and Results (Mesures des Fluctuations Glaciaires dans les Alpes Francaises; Collecte des Donnees et Resultats),  
W85-05021 1810 2C

### LABORATOIRE PUBLIC D'ESSAIS ET D'ETUDES, CASABLANCA (MOROCCO).

Empirical Contribution to the Study of Swell Propagation in a Breakwater (Contribution Empirique a l'Etude de la Propagation de la Houle a l'intérieur des Digue),  
W85-03589 1807 8B

### LABORATORIUM VOOR GRONDMECHANICA, DELFT (NETHERLANDS).

Spread of Pollutants from Harbour Sludge Depots,  
W85-00572 1802 5E

LAENSSTYRELSEN, OSTERSUND (SWEDEN). Phytoplankton in a Polluted Subarctic Lake Before and After Nutrient Reduction,  
W85-04490 1809 5C

### LAHMEYER INTERNATIONAL G.M.B.H., FRANKFURT AM MAIN (GERMANY, F.R.).

Design and Construction of the Agus IV Power Cavern, Part Three: Control of Behavior,  
W85-02683 1805 8A

Practicability of Dam Rehabilitation (Praktische Moglichkeiten und Grenzen der Talsperrensanierung),  
W85-03254 1807 8A

### LAKEHEAD UNIV., THUNDER BAY (ONTARIO). SCHOOL OF ENGINEERING.

Real-Time Reservoir Operations by Goal Programming,  
W85-01566 1803 6A

### LAMONT-DOHERTY GEOLOGICAL OBSERVATORY, PALISADES, NY.

Distributions of Ferrous Iron and Sulfide in an Anoxic Hypolimnion,  
W85-00149 1801 2H

Determination of Hydrogen Ion Concentration in Softwater Lakes Using Carbon Dioxide Equilibria,  
W85-00298 1801 2K

Side-Scan Targets in Lake Superior - Evidence for Bedforms and Sediment Transport,  
W85-01277 1803 2J

Elemental Composition of Suspended Particles From the Yellow and Yangtze Rivers,  
W85-01703 1804 2J

Particle Flux and Trace Metal Residence Time in Natural Waters,  
W85-02792 1806 2K

Desorption and Coagulation of Trace Elements During Estuarine Mixing,  
W85-03208 1806 2K

Comparative Utility of Microwave and Shortwave Satellite Data for All-Weather Charting of Snow Cover,  
W85-03492 1807 7B

Accumulation of Sediments, Trace Metals (Pb, Cu) and Total Hydrocarbons in Narragansett Bay, Rhode Island,  
W85-03500 1807 5B

D/H Ratios of Sap in Trees: Implications for Water Sources and Tree Ring D/H Ratios,  
W85-04758 1809 2I

Gas Exchange-Wind Speed Relation Measured with Sulfur Hexafluoride on a Lake,  
W85-05055 1810 2H

Effect of Tilt on Sediment Trap Efficiency,  
W85-06850 1812 7B

New Method for Monitoring Temporal Trends in the Acidity of Fresh Waters,  
W85-07143 1812 5A

### LANCASTER UNIV., BAILRIGG (ENGLAND). DEPT. OF ENVIRONMENTAL SCIENCES.

Calibration Studies Concerning a One-Dimensional Numerical Tidal Model with Particular Reference to Resistance Coefficients,  
W85-03635 1807 2L

Comparative Survey of the Erpobdella octoculata (L.) Populations in the Afon Crafnant, N. Wales, Above and Below an Input of Zinc from Mine-Waste,  
W85-04886 1809 5C

### LAND USE CONSULTANTS (INTERNATIONAL), NEW DELHI (INDIA).

Reservoir Sedimentation in India -- Its Causes, Control, and Future Course of Action,  
W85-04439 1809 6G

### LANDESAMT FUER WASSER UND ABFALL NORDRHEIN-WESTFALEN, DUSSELDORF (GERMANY, F.R.).

Toxic Situation to Daphnia in the Lower Wupper River - A Supplemental Method of Water Quality Surveillance (Die daphnientoxische Situation in der Unteren Wupper - Eine ergänzende Methode der Gewässergutüberwachung),  
W85-00963 1802 5C

Recent Developments of the Phytoplankton and its Activity in the Lower Rhine,  
W85-05683 1810 5C

## ORGANIZATIONAL INDEX

**LIMNOLOGIC INST., NIEUWERSLUIS (NETHERLANDS).**

<b>LANDESAMT FUER WASSERWIRTSCHAFT, MUNICH (GERMANY, F.R.).</b> Monitoring of the Grout Curtain of Frauenaus Dam (Kontrolle der Untergrundabdichtung des Staudamms Frauenaus), W85-03263	1807 8E	<b>LAW ENGINEERING TESTING CO., MARIETTA, GA.</b> Lower Hawthorn Aquifer on Sanibel Island, Florida, W85-00303	1801 4B	<b>LENINGRADSKII POLITEKHNIKESKII INST. (USSR).</b> Parabolic Canal Design and Analysis, W85-01515	1803 8A
<b>LANDESANSTALT FUER UMWELTSCHUTZ BADEN-WUERTTEMBERG, KARLSRUHE (GERMANY, F.R.).</b> Effect of Some Heavy-metals on Glucose As- similation in Polluted Waters, W85-04705	1809 5C	Land Treatment of Waste as an Industrial Siting Advantage, W85-05249	1810 5D	<b>LETHBRIDGE UNIV. (ALBERTA). DEPT. OF BIOLOGICAL SCIENCES.</b> Emergent Plant Communities of Oxbow Lakes in Northeastern Alberta: Salinity, Water-Level Fluctuation, and Succession, W85-00951	1802 2H
<b>LAPORE INORGANICS, CHESHIRE (ENGLAND).</b> Chemical Flocculation of Sewage, W85-04338	1808 5D	<b>LAWRENCE LIVERMORE NATIONAL LAB., CA.</b> Borehole Collector for in-situ Chemical Analy- ses of Ground Water, W85-00328	1801 7B	Ephemeral Saline Lakes on the Canadian Prai- ries: Their Classification and Management for Emergent Macrophyte Growth, W85-05753	1810 2H
<b>LAURENTIAN UNIV., SUDBURY (ONTARIO). DEPT. OF BIOLOGY.</b> Unreliability of the Kinetic Approach to Meas- uring Bacterial Mineralization Activities at Low in situ Temperatures in an Acidic Aquatic Envi- ronment, W85-02440	1805 5A	Hepatic Mixed-Function Oxidases in California Flatfishes are Increased in Contaminated Envi- ronments and by Oil and PCB Ingestion, W85-01894	1804 5A	<b>LEXINGTON, KY.</b> Aquifer Protection Planning: Groundwater Pro- tection in Two Massachusetts Communities, W85-05912	1811 5G
<b>LAUTRICH AND PECHER, DUSSELDORF (GERMANY, F.R.).</b> Overflow Data of Rainwater Discharge Systems Determined From Run Off Simulation of Plu- viograph Records, W85-01698	1804 2E	Toxicity of Copper to the Adult and Early Life Stages of the Freshwater Clam, Corbicula mani- ensis, W85-02193	1805 5C	<b>LGL LTD., TORONTO (ONTARIO).</b> Acute Lethal Toxicity of Prudhoe Bay Crude Oil and Corexit 9527 to Arctic Marine Fish and Invertebrates, W85-06970	1812 5C
<b>LAVAL UNIV., QUEBEC. DEPT. DE BIOLOGIE.</b> Brook Trout ( <i>Salvelinus fontinalis</i> ) Population Structure in Acidified Lac Tantare, Quebec, W85-01489	1803 5C	<b>LAWRENCE LIVERMORE NATIONAL LAB., CA. ENVIRONMENTAL SCIENCES DIV.</b> Benthic-Pelagic Coupling in Sewage-Affected Marine Ecosystems, W85-04874	1809 5C	<b>LIEGE UNIV. (BELGIUM).</b> Complicated Belgian Sewerage System, W85-06811	1812 4A
<b>LAVAL UNIV., QUEBEC. DEPT. DE SCIENCES.</b> Short Term Response of a Northern Lotic Eco- system to a Great Reduction in Flow (Reponse a Court Terme, d'un Ecosystème Lotique Nordi- que a une Forte Reduction de Debit), W85-05658	1810 6G	<b>LAWRENCE UNIV., APPLETON, WI. DEPT. OF BIOLOGY.</b> Phytoplankton Standing Stock, Size Distribu- tion, Species Composition and Productivity Along a Trophic Gradient in Green Bay, Lake Michigan, W85-02640	1805 2H	<b>LIEGE UNIV. (BELGIUM). DEPT. OF BOTANY.</b> Cadmium Toxicity and Accumulation by Tetra- hymena pyriformis in Contaminated River Waters, W85-02748	1806 5C
<b>LAVAL UNIV., QUEBEC. DEPT. DE GENIE CHIMIQUE.</b> Alum Sludge: A Sampling Method for the Ra- dioactivity in Waters (Les boues d'alun: une Méthode d'échantillonage des cours d'eau pour l'étude des Radionucléides), W85-04017	1808 5A	<b>LEBANESE UNIV., BEIRUT. FACULTY OF SCIENCES.</b> Studies on Lebanese Streams: The Biological Zonation of the Nahr Qab Ilias (Contribution a la connaissance des cours d'eau du Liban: la zonation biologique du Nahr Qab Ilias), W85-00093	1801 2H	Impact of the Tihange Nuclear Power Plant on the Periphyton and the Phytoplankton of the Meuse River (Belgium), W85-04388	1808 5C
<b>LAVAL UNIV., QUEBEC. DEPT. DE MATHEMATIQUES.</b> Detection of False-Positives Among Total and Fecal Coliform Counts by Factorial Analysis of Correspondence, W85-04265	1808 5A	<b>LEEDS UNIV. (ENGLAND). DEPT. OF CIVIL ENGINEERING.</b> Versatile Computer-Controlled Fermentor for the Simulation of Wastewater Treatment Sys- tems, W85-06837	1812 5D	<b>LIEGE UNIV. (BELGIUM). ZOOLOGY INST.</b> Relative Importance of Dietary and Environ- mental Sources of Lindane in Fish, W85-02779	1806 5B
<b>LAVAL UNIV., QUEBEC. DEPT. DE CIVIL ENGINEERING.</b> Interaction between Discharge and Populations of Parr ( <i>Salmo salar</i> ) of the Matamec River, Quebec (Interaction Entre le Débit et les Popu- lations de Tacons ( <i>Salmo salar</i> ) de la Rivière Matamec, Québec), W85-01492	1803 2H	<b>LEEDS UNIV. (ENGLAND). SCHOOL OF ECONOMIC STUDIES.</b> Cost-Benefit Analysis of Wetland Drainage, W85-00278	1801 4A	<b>LILLE-2 UNIV. (FRANCE). UNIT OF PHARMACY.</b> Relation between Toxicity and Free Forms of Some Trace Metals (Relation entre Toxicité et Formes Libres de Quelques Métaux Traces), W85-05976	1811 5C
<b>LAVAL UNIV., QUEBEC. DEPT. OF CIVIL ENGINEERING.</b> Sedimentation Cycle of a Freshwater Tidal Flat in the St. Lawrence Estuary, W85-02396	1805 2L	<b>LEEDS UNIV. (ENGLAND). SCHOOL OF GEOGRAPHY.</b> Process Based Model of Faecal Bacterial Levels in Upland Catchments, W85-01420	1803 5B	<b>LILLY (ELI) AND CO., INDIANAPOLIS, IN. LILLY RESEARCH LAB.</b> Fate and Effectiveness of Tebuthiuron Applied to a Rangeland Watershed, W85-01285	1803 5B
<b>LAVAL UNIV., QUEBEC. DEPT. OF CIVIL ENGINEERING.</b> Comparison of Field Data with Theories on Ice Cover Progression in Large Rivers, W85-05458	1810 2C	<b>LEICESTER POLYTECHNIC (ENGLAND). SCHOOL OF CHEMISTRY.</b> Role of Sulphide in the Formation of Dimethyl Mercury in River and Estuary Sediments, W85-03240	1807 5B	Effects of Cadmium-Enriched Sediment on Fish and Amphibian Embryo-Larval Stages, W85-02701	1806 5C
<b>LEICESTER UNIV. (ENGLAND). DEPT. OF ADULT EDUCATION.</b> Recent Changes in the Ecology of Lake Naivasha, Kenya, W85-04566	1809 2H	<b>LIMBURG UNIV., MAASTRICHT (NETHERLANDS). FACULTY OF LAW.</b> Marine Pollution from Land-Based Sources: Current Problems and Prospects, W85-04188	1808 6E		
<b>LEIDEN RIJKSUNIVERSITEIT (NETHERLANDS). SINOLOGICAL INST.</b> Agriculture in China - A Deteriorating Situa- tion, W85-06630	1812 4C	<b>LIMNOLOGIC INST., NIEUWERSLUIS (NETHERLANDS).</b> Nitrogen Cycle of Lake Vechten (The Nether- lands); Role of Sedimentation, W85-00109	1801 2H		
<b>LENINGRAD STATE UNIV. (USSR).</b> Changes in Southern Chernozems after Drip Irriga- tion, W85-06750	1812 3F	Carbon Flow Across the Sediment-Water Inter- face in Lake Vechten, The Netherlands, W85-02066	1804 2H		
		Loosdrecht Lakes Restoration Project, an Intro- duction, W85-04544	1809 2H		

## ORGANIZATIONAL INDEX

### LIMNOLOGIC INST., NIEUWERSLUIJS (NETHERLANDS).

Loosdrecht Lakes Restoration Project: Sediment Phosphorus Distribution and Release from the Sediments, W85-04546	1809	2K	LIVERPOOL UNIV. (ENGLAND). DEPT. OF CIVIL ENGINEERING. Dispersion of Marked Fluid in Reservoirs, W85-04154	1808	2H
Seston-Epelion Interrelationships in the Shallow Eutrophic Loosdrecht Lakes (The Netherlands), W85-04547	1809	2H	LIVERPOOL UNIV. (ENGLAND). DEPT. OF GEOGRAPHY. Combined Radiometric and Mineral Magnetic Approach to Recent Geochronology in Lakes Affected by Catchment Disturbance and Sediment Redistribution, W85-01100	1802	2J
Zooplankton and its Grazing as Measures of Trophy in the Loosdrecht Lakes, W85-04548	1809	2H	Particulate Pollution Monitoring in the Elefsis Gulf: The Role of Mineral Magnetic Studies, W85-01486	1803	5A
Macrophytes in the Loosdrecht Lakes: A Story of Their Decline in the Course of Eutrophication, W85-04549	1809	5C	LIVERPOOL UNIV. (ENGLAND). DEPT. OF INORGANIC, PHYSICAL AND INDUSTRIAL CHEMISTRY. Major Ion and Carbonate System Chemistry of a Navigable Freshwater Canal, W85-02841	1806	5B
Carbon Mineralization in Microaerobic and An-aerobic Strata of Lake Vechten (The Netherlands): Diffusion Flux Calculations and Sedimentation Measurements, W85-04702	1809	2H	LIVERPOOL UNIV. (ENGLAND). DEPT. OF OCEANOGRAPHY. Organic Complexation of Zinc in Estuarine Intertidal and Surface Water Samples, W85-02789	1806	2L
Comparison of Bacterial Sulfate Reduction and Methanogenesis in the Anaerobic Sediments of a Stratified Lake-Ecosystem, W85-04703	1809	2H	Determining Trace Concentrations of Copper in Water by Cathodic Film Stripping Voltammetry With Adsorptive Collection, W85-04410	1809	5A
Kinetic Studies of Bacterial Sulfate Reduction in Freshwater Sediments by High-Pressure Liquid Chromatography and Microdistillation, W85-05053	1810	2H	LIVERPOOL UNIV., PORT ERIN (ENGLAND). DEPT. OF MARINE BIOLOGY. Emersion Curve in Semidiurnal Tidal Regimes, W85-00653	1802	2L
LIMNOLOGIC INST., OOSTERZEE (NETHERLANDS). TJEUKEMEER LAB. Size Classes of 'Dissolved' Nutrients in Shallow, Alkaline, Humic and Eutrophic Tjeukemeer, The Netherlands, as Fractionated by Ultrafiltration, W85-04550	1809	2K	Physical Hydrology of a Lagoon System on the Pacific Coast of Mexico, W85-03499	1807	2L
Availability of Dissolved Iron from Tjeukemeer, The Netherlands, For Iron-Limited Growing Scenedesmus quadricauda, W85-04978	1810	2H	LJUBLJANA UNIV. (YUGOSLAVIA). BILOGICAL INST. Effect on Water Chemistry and Phytoplankton of Artificial Inflow of the River Radovna into Lake Bleč (Yugoslavia), W85-01473	1803	5G
LINCOLN COLL. (NEW ZEALAND). DEPT. OF AGRICULTURAL ENGINEERING. Seepage Characteristics of Coarse Granular Media, W85-02557	1805	8B	Applicability of Some Numerical Methods and the Evaluation of Bryophyta Indicator Species for the Comparison of the Degree of Pollution Between Two Rivers, W85-02238	1805	5A
LINCOLN COLL. (NEW ZEALAND). DEPT. OF SOIL SCIENCE. Soil Structure Effects and Leaching of Sodium Following Sodium Chloride Fertiliser Applications, W85-06184	1812	2K	LLOYD (T.) ASSOCIATES, PHILADELPHIA, PA. Aquatic Ecology of the New Jersey Pinelands, W85-00814	1802	6G
Relations Between Available and Extractable Soil Water and Evapotranspiration from a Bean Crop, W85-06279	1812	2G	Rural Water Plan, (Cumberland Co., N.J.), W85-00824	1802	6D
LITTLE (ARTHUR D.), INC., CAMBRIDGE, MA. Soil and Groundwater Fate Modeling, W85-06766	1812	5B	LOCKHEED ENGINEERING AND MANAGEMENT SERVICES CO., INC., LAS VEGAS, NV. Spatial Mapping of Conductive Ground Water Contamination with Electromagnetic Induction, W85-03177	1806	5A
LIVERPOOL UNIV. (ENGLAND). DEPT. OF APPLIED MATHEMATICS AND THEORETICAL PHYSICS. Mathematical Models of Dispersion in Rivers and Estuaries, W85-05832	1810	2E	LODZ UNIV. (POLAND). INST. OF ENVIRONMENTAL BIOLOGY. Fish Production in Oued Sebau, A Seasonal River in North Algeria, W85-04318	1808	2H
LIVERPOOL UNIV. (ENGLAND). DEPT. OF BOTANY. Study of the Copper-Complexing Compounds Released by Some Species of Cyanobacteria, W85-01725	1804	5B	Phosphorus, Nitrogen, and Carbon Cycling by Fish Populations in Two Small Lowland Rivers in Poland, W85-04888	1809	5B
Effects of Gel-forming Polyacrylamides on Moisture Storage in Sandy Soils, W85-03797	1808	3B	LOFTUS (PETER F.) CORP., CHICAGO, IL. Computer Control of a Small Wastewater Treatment Plant, W85-05297	1810	5D
<b>LONDON BRICK LANDFILL LTD., STWARTBY (ENGLAND).</b>					
Experience with the Co-disposal of Hazardous Waste with Domestic Waste, W85-02752					
1806 5E					
<b>LONDON POLLUTION CONTROL DIV. (ONTARIO).</b>					
Controlling Sewage Treatment Plant Odours, W85-04769					
1809 5D					
<b>LONG ASHTON RESEARCH STATION (ENGLAND).</b>					
Inexpensive Balance for Measuring Throughfall in Cereals, W85-01074					
1802 7B					
<b>LONG ISLAND REGIONAL PLANNING BOARD, HAUPPAUGE, NY.</b>					
Long Island Segment of the Nationwide Urban Runoff Program, W85-00058					
1801 5B					
<b>LORD (J.M.) INC., FRESNO, CA.</b>					
Minimizing Capital Costs of Multi-Outlet Pipelines, W85-01509					
1803 8A					
<b>LORENZ (WILLIAM T.) AND CO., BOSTON, MA.</b>					
New Ideas Reshaping Treatment Technologies, W85-04751					
1809 5D					
<b>LOS ALAMOS NATIONAL LAB., NM.</b>					
Erosion of Earth Covers Used in Shallow Land Burial at Los Alamos, New Mexico, W85-01282					
1803 5G					
Predicted Erosion and Sediment Delivery of Fallout Plutonium, W85-03858					
1808 5B					
New Continuously Monitored Collection System for Liquid Industrial Wastes, W85-03872					
1808 8A					
Attenuation of Chemical Elements in Acidic Leachates from Coal Mineral Wastes by Soils, W85-04600					
1809 5B					
<b>LOS ANGELES BUREAU OF SANITATION, CA.</b>					
Energy Use Considerations in the Activated Sludge Process in Los Angeles, U.S.A., W85-03642					
1807 5D					
<b>LOUGHBOROUGH UNIV. OF TECHNOLOGY (ENGLAND). DEPT. OF GEOGRAPHY.</b>					
Water Quality Implications of Artificial Flow Fluctuations in Regulated Rivers, W85-02413					
1805 2K					
Channel Changes and Invertebrate Faunas below Nant-Y-Moch Dam, River Rheidol, Wales, UK, W85-06007					
1811 6G					
<b>LOUGHBOROUGH UNIV. OF TECHNOLOGY (ENGLAND). DEPT. OF HUMAN SCIENCES.</b>					
Light Penetration and Some Related Characteristics in Small Forest Lakes in Southern Finland, W85-04542					
1809 2H					
<b>LOUISIANA AGRICULTURAL EXPERIMENT STATION, BATON ROUGE.</b>					
Comprehensive Estuarine Nursery Study Completed, W85-04392					
1808 2L					
<b>LOUISIANA COOPERATIVE WILDLIFE RESEARCH UNIT, BATON ROUGE.</b>					
Water Quality and the Rotifer Populations in the Atchafalaya River Basin, Louisiana, W85-00399					
1801 5C					

## ORGANIZATIONAL INDEX

**LOUISIANA STATE UNIV., BATON ROUGE.  
CENTER FOR ENERGY STUDIES.**  
Mississippi Deltaic Wetland Survival: Sedimentation Versus Coastal Submergence, W85-00221 1801 2L

**LOUISIANA STATE UNIV., BATON ROUGE.  
CENTER FOR WETLAND RESOURCES.**  
Impact and Mitigation of Man-Made Canals in Coastal Louisiana, W85-00569 1802 6G

Carbon Cycle and the Rate of Vertical Accumulation of Peat in the Mississippi River Deltaic Plain, W85-03487 1807 2H

Vegetation and Primary Production in a Floating Freshwater Marsh in Louisiana, W85-04855 1809 2L

Effect of Sedimentation on the Primary Production of Benthic Microflora, W85-05707 1810 2L

**LOUISIANA STATE UNIV., BATON ROUGE.  
DEPT. OF AGRICULTURAL ENGINEERING.**  
Reducing Water Pollution with Subsurface Drainage, W85-03367 1807 5G

Corn Silage Response to Subsurface Drainage on Alluvial Soil, W85-04738 1809 2G

Hydraulic Conductivity Measured Electronically in an Auger Hole, W85-04740 1809 2G

**LOUISIANA STATE UNIV., BATON ROUGE.  
DEPT. OF CHEMISTRY.**

Synergistic Effects of Acidity and Aluminum on Fish (Golden Shiners) in Louisiana, W85-06599 1812 5C

**LOUISIANA STATE UNIV., BATON ROUGE.  
DEPT. OF CIVIL ENGINEERING.**

Geomorphic Approach to Hydrograph Synthesis, with Potential for Application to Ungaged Watersheds, W85-00069 1801 2A

Onondaga Lake and the Dynamics of Chloride in the Oswego River, W85-00549 1802 2H

Solution of the Kinematic-Wave Equations for Border Irrigation, W85-03485 1807 3F

Technique of Reinitialization for Efficient Simulation of Large Aquifers Using the Discrete Kernel Approach, W85-03574 1807 2F

Design of a Physically-Based Distributed Parameter Model for Arid-Zone Surface-Groundwater Management, W85-03751 1807 2A

Application of a Physically-Based Distributed Parameter Model for Arid-Zone Surface-Groundwater Management, W85-03752 1807 4B

Phosphorus-Based Fish Kill Response Function for Use with Stochastic Lake Models, W85-03836 1808 5C

Mathematical Representation of Short Term Phosphorus Variations in a Non-Stratified Southern Lake, W85-06285 1812 2H

Statistical Comparison of Heavy Metal Concentrations in Various Louisiana Sediments, W85-06289 1812 5B

**LOUISIANA STATE UNIV., BATON ROUGE.  
DEPT. OF GEOLOGY.**  
Sediment Transport and Morphology at the Surf Zone of Presque Isle, Lake Erie, Pennsylvania, W85-03349 1807 2J

**LOUISIANA STATE UNIV., BATON ROUGE.  
DEPT. OF MARINE SCIENCE.**  
Dynamics of a River-Bay-Delta System, W85-02961 1806 2E

Natural Factors and Human Modifications Contributing to Marsh Loss in Louisiana's Mississippi River Deltaic Plain, W85-04603 1809 2L

**LOUISIANA STATE UNIV., BATON ROUGE.  
DEPT. OF ZOOLOGY AND PHYSIOLOGY.**  
Effect of Crude Oil on the Colonization of Meiofauna into Salt Marsh Sediments, W85-03505 1807 5C

**LOUISIANA STATE UNIV., BATON ROUGE.  
INST. FOR ENVIRONMENTAL STUDIES.**  
Determination of Oxidants Formed upon the Disinfection of Drinking Water with Chlorine Dioxide, W85-01743 1804 5A

**LOUISIANA STATE UNIV., BATON ROUGE.  
LAB. FOR WELAND SOILS AND  
SEDIMENTS.**

Fate of Riverine Nitrate Entering an Estuary: I. Denitrification and Nitrogen Burial, W85-06412 1812 5B

**LOUISIANA UNIVERSITIES MARINE  
CONSORTIUM, CHAUVIN.**

Dependence of Fishery Species on Salt Marshes: The Role of Food and Refuge, W85-05706 1810 2L

**LOUISIANA WATER RESOURCES  
RESEARCH INST., BATON ROUGE.**  
Co-Treatment of Water Softening and Wastewater Sludges, W85-00609 1802 5E

**LOUISVILLE UNIV., KY. DEPT. OF  
CHEMICAL AND ENVIRONMENTAL  
ENGINEERING.**

Steam Stripping of Coal Liquefaction Waste for Ammonia and Sulfide Removal, W85-05268 1810 5D

Biototoxicity of Coal Liquefaction Waste in the Activated Sludge Process, W85-05437 1810 5D

**LOUISVILLE UNIV., KY. DEPT. OF CIVIL  
ENGINEERING.**

Rising Ground Water - Problem or Resource, W85-00307 1801 4B

**LOUVAIN UNIV. (BELGIUM). DEPT. OF  
AGRICULTURAL ENGINEERING.**

Irrigation System Uniformity Function Relating the Effective Uniformity of Water Application to the Scale of Influence of the Plant Root Zones, W85-05938 1811 3F

**LOWER-TISZA DISTRICT WATER  
AUTHORITY, SZEGED (HUNGARY).**

Study on the Heavy Metals Having Effect on the Water Biocenoses in the Backwaters at Alpar and Lakitelek, W85-03112 1806 5C

Results of the Preliminary Investigations on the Algal Communities in the Backwater of the Tisza at Alpar, W85-03116 1806 5C

Studies on the Qualitative and Quantitative Composition and the Seasonal Changes of Phytoplankton at Three Sampling Areas of the Dead Tisza at Lakitelek, W85-03117 1806 5C

**LUND UNIV. (SWEDEN). LIMNOLOGICAL INST.**

**LOYOLA UNIV. OF CHICAGO, IL.**  
Thermal Effluent as a Sporadic Cornucopia: Effects on Fish and Zooplankton, W85-03315 1807 5C

**LOYOLA UNIV. OF CHICAGO, IL. DEPT. OF  
CHEMISTRY.**

Spectrophotometric Determination of Nitrate and Nitrite in Natural Water and Sea-Water, W85-06571 1812 5A

**LUND INST. OF TECH. (SWEDEN). DEPT. OF  
ENVIRONMENTAL ENGINEERING.**

Some Aspects on Reduction of Phosphorus in Soil Treatment Systems, W85-05212 1810 5D

**LUND UNIV. (SWEDEN).**  
Dynamic Properties of Rainfall in Lund, W85-06637 1812 2B

Investigation of the Influence of Rainfall Movement on Runoff Hydrograph. Part I - Simulation on Conceptual Catchment, W85-06640 1812 2E

Investigation of the Influence of Rainfall Movement on Runoff Hydrograph. Part II - Simulation on Real Catchments in the City of Lund, W85-06641 1812 2E

**LUND UNIV. (SWEDEN). CHEMISTRY  
CENTRE.**

Anaerobic Treatment of Wastewater from the Production of Chemi-Thermomechanical Pulp, W85-07007 1812 5D

**LUND UNIV. (SWEDEN). DEPT. OF  
ANALYTICAL CHEMISTRY.**

Ion Chromatographic Determination of Nitrate and Sulfate in Natural Waters Containing Humic Substances, W85-02832 1806 2K

**LUND UNIV. (SWEDEN). DEPT. OF ANIMAL  
ECOLOGY.**

Animal Community Structure as a Function of Stream Size, W85-00426 1801 2H

Functional Aspects of a Lake Outlet Versus a Springfed Stream Ecosystem, W85-05680 1810 2H

**LUND UNIV. (SWEDEN). DEPT. OF MARINE  
BOTANY.**

Response of Planktonic and Microbenthic Algal Assemblages to Nutrient Enrichment in Shallow Coastal Waters, Southwest Sweden, W85-06210 1812 2L

**LUND UNIV. (SWEDEN). DEPT. OF  
RADIATION PHYSICS.**

Radioecological Studies of Activation Products Released from a Nuclear Power Plant into the Marine Environment, W85-04865 1809 5B

**LUND UNIV. (SWEDEN). LAB. OF  
ECOLOGICAL CHEMISTRY.**

Small-scale Temporal Changes in the Biological and Chemical Composition of Surface Micro-layers in a Eutrophic Lake, W85-04538 1809 2H

**LUND UNIV. (SWEDEN). LIMNOLOGICAL  
INST.**

Effects of Winter Harvest on Water and Sediment Chemistry in a Stand of Reed (*Phragmites australis*), W85-00794 1802 6G

Transport of PCBs from Aquatic to Terrestrial Environments by Emerging Chironomids, W85-00910 1802 5B

## ORGANIZATIONAL INDEX

### LUND UNIV. (SWEDEN). LIMNOLOGICAL INST.

Acidified Lakes: Sediment Treatment with Sodium Carbonate - A Remedy, W85-02096	1804 5G	MADHAV SCIENCE COLL., UJJAIN (INDIA). DEPT. OF ZOOLOGY. Effect of Sewage with Special Reference to Aquatic Insects in the River Kshipra (India), W85-05029	1810 5C	MAINE UNIV. AT ORONO. DEPT. OF GEOLOGICAL SCIENCES. Use of Solute Tracers Released by Weathering to Estimate Groundwater Inflow to Seepage Lakes, W85-06705	1812 2F
Sedimentation of Polychlorinated Biphenyls (PCBs) in Limnic and Marine Environments, W85-02911	1806 5B	MADISON METROPOLITAN SEWERAGE DISTRICT, WI. Managing Organics in Sludge Reuse Programs, W85-02796	1806 5E	Nutrient Internal Cycling and the Trophic Regulation of Green Lake, Wisconsin, W85-07070	1812 2H
Short-term Effects of Liming on Sediment Oxygen Uptake in an Acid lake, W85-04537	1809 5G	MAGUIRE (C.E.), INC., PORTLAND, ME. Water Supplies in Rhode Island Past to Present, W85-01314	1803 5F	MAINE UNIV. AT ORONO. DEPT. OF ZOOLOGY. Errors in pH Measurement with Colorimetric Indicators in Low Alkalinity Waters, W85-00992	1802 5A
Acidified Lakes: Ecosystem Response Following Sediment Treatment with Sodium Carbonate, W85-04539	1809 5G	MAGYAR TUDOMANYOS AKADEMIA, BUDAPEST. STATION FOR DANUBE RESEARCH. Relationship Between the Chemical Oxygen Demand, Suspended Matter Content and Algal Count in the Eastern Main Canal (Hungary), W85-03114	1806 5C	Effects of Reduced pH on Three Life Stages of Sunapee Char <i>Salvelinus alpinus</i> , W85-02780	1806 5C
Detritus Decomposition in Endogenous and Exogenous Rivers of a Tropical Wetland, W85-05673	1810 2H	MAGYAR TUDOMANYOS AKADEMIA, BUDAPEST. SZAMITASTECHNIKAI ES AUTOMATIZALASI KUTATO INTEZETE. Description of the Multi-Annual Eutrophication Process of Shallow Lakes by a Discrete Time Watershed Development Model, W85-01305	1803 5C	MAINE UNIV. AT ORONO. LAND AND WATER RESOURCES CENTER. Cellular Phosphorus Concentration as a Criterion for Trophic Status in Rapidly Flushed Lakes, W85-04846	1809 2H
Change in PCB (Clophen A 50) Composition when Transported from Sediment to Air in Aquatic Model Systems, W85-05974	1811 5B	Submodels for the Nutrient Loading Estimation on River Zala, W85-05604	1810 5B	MAINE UNIV. AT ORONO, WALPOLE. DEPT. OF OCEANOGRAPHY. Incorporation of Trivalent Chromium into Riverine and Estuarine Colloidal Material, W85-03206	1806 2K
LUZERN KANTOLES AMT FUER GEWASSERSCHULTZ (SWITZERLAND). Effects of Internal Measures in Baldeggsee: Forced-Circulation and Oxygenation of the Hypolimnia (Die Auswirkungen von internen Massnahmen im Baldeggsee: Zwangszirkulation und Sauerstoffbegasung des Hypolimnions), W85-04559	1809 5G	MAIN (CHARLES T.), INC., BOSTON, MA. Computer Modelling of Reservoir Networks and Hydroelectric Plants, W85-02680	1805 8A	MAINE UNIV., ORONO. High-Performance Liquid Chromatographic Analysis of Rotenone and Rotenonone in Water by Direct Injection, W85-03406	1807 5A
LYON-1 UNIV., VILLEURBANNE (FRANCE). Structure and Function of Ecosystems of the French Haut-Rhone (Structure et fonctionnement des ecosystèmes du Haut-Rhône français), W85-01016	1802 2H	Advanced Water Recycling System Required for New South African Mill, W85-05777	1810 3C	MAINZ UNIV. (GERMANY, F.R.). HYGIENE INST. Isolation of Organic Material from Water, W85-07150	1812 5A
LYON-1 UNIV., VILLEURBANNE (FRANCE). DEPT. DE BIOLOGIE ANIMALE ET ZOOLOGIE. Transverse Distribution of Benthic Macroinvertebrates in an Arm of the Rhone (Repartition Transversale des Macroinvertébrés Benthiques Dans un Bras du Rhône), W85-00986	1802 2H	MAINE COOPERATIVE FISHERY RESEARCH UNIT, ORONO. Calibrating Effects of Acidity on Atlantic Salmon for Use in Habitat Suitability Models, W85-00068	1801 5C	MAINZ UNIV. (GERMANY, F.R.). PHYSIOLOGISCHE-CHEMISCHE INST. Biochemical Alterations Induced in Fish by an Acute Kerosene-Spillage, W85-06394	1812 5C
LYON-1 UNIV., VILLEURBANNE (FRANCE). SECTION OF FRESHWATER ECOLOGY. Seasonal Dynamics of Water Movements and of Suspended Matter in a Large River (Dynamique Saisonnière des Mouvements de l'eau et des Particules en Suspension dans un Fleuve), W85-05681	1810 2E	MAINE STATE PLANNING OFFICE, AUGUSTA. Logging and Water Quality; State Regulation in New England, W85-05959	1811 5G	MALAGA UNIV. (SPAIN). DEPT. DE ECOLOGIA. Rapid and Sensitive Automated Determination of Phosphate in Natural Waters, W85-05622	1810 5A
LYONNAISE DES EAUX, BORDEAUX (FRANCE). Comparison of Water Mains Cleaning Techniques - The Experiment of Begles (Comparaison des Techniques de Curage des Conduites d'Eau Potable - L'Experience de Begles), W85-01999	1804 8A	MAINE UNIV. AT ORONO. CANADIAN-AMERICAN CENTER. Lawn and Garden Watering Regulations: Conservation Through a Water Use Index, W85-04695	1809 3D	MALAGA UNIV. (SPAIN). DEPT. OF MICROBIOLOGY. Coliphage Survival in Seawater, W85-07114	1812 5B
LYONNAISE DES EAUX, PARIS (FRANCE). Economising Water and Fighting against Waste (Economie d'Eau et Lutte contre le Gaspi-lage), W85-01996	1804 6B	MAINE UNIV. AT ORONO. DEPT. OF BOTANY AND PLANT PATHOLOGY. Aquatic Macrophytes and pH as Controls of Diversity for Littoral Cladocerans, W85-04202	1808 5C	MALAWI UNIV., ZOMBA. DEPT. OF GEOGRAPHY. Controls of Sedimentation in the Malawi Rift Valley, Central Africa, W85-03216	1806 2J
M.G.A., CARACAS (VENEZUELA). Water Conservation and Capacity Expansion, W85-01579	1803 3D	Acidification and Changes over Time in the Chydorid Cladocera Assemblage of New England Lakes, W85-04203	1808 5C	MALE (C.T.) ASSOCIATES, SCHENECTADY, NY. Renovation of a Major Reservoir, W85-00736	1802 8C
MACAULAY INST. FOR SOIL RESEARCH, ABERDEEN (SCOTLAND). DEPT. OF MICROBIOLOGY. Potential Sites of Geosmin Production by Streptomyces in and around Reservoirs, W85-06181	1812 5B	Methods of pH Calibration of Sedimentary Diatom Remains for Reconstructing History of pH in Lakes, W85-04725	1809 5C	MALHEUR NATIONAL FOREST, JOHN DAY, OR. Coliforms as an Indicator of Water Quality in Wildland Streams, W85-05958	1811 5A
MACDONALD COLL., STE. ANNE DE BELLEVUE (QUEBEC). DEPT. OF AGRICULTURAL ENGINEERING. First and Second Order Analyses of Parameter Uncertainty in Drainage Design, W85-03400	1807 2E	MAINE UNIV. AT ORONO. DEPT. OF CIVIL ENGINEERING. Use of Peat for On-Site Wastewater Treatment: I. Laboratory Evaluation, W85-03853	1808 5D	MANCHESTER POLYTECHNIC (ENGLAND). DEPT. OF ENVIRONMENTAL AND GEOGRAPHICAL STUDIES. Point-Recharge of Limestone Aquifers - A Model from New Zealand Karst, W85-00002	1801 2F

## ORGANIZATIONAL INDEX

### MARYLAND DEPT. OF HEALTH AND MENTAL HYGIENE, BALTIMORE.

**MANCHESTER UNIV. (ENGLAND). DEPT. OF GEOGRAPHY.**

Investigations of Glacier Hydrological Systems Using Dye Tracer Techniques: Observations at Pasterzenegletscher, Austria,  
W85-03344

1807 2C

**MANCHESTER WATER WORKS, NH.**

Granular Activated Carbon Regional Reactivation Project at Manchester, New Hampshire,  
W85-01620

1803 5D

Design and Operation of Flexible Membrane Covers for Distribution Storage Reservoirs,  
W85-04020

1808 8A

Traditional Approach to Water System O and M,  
W85-07060

1812 5F

**MANGALORE UNIV. (INDIA).**

Seasonal Occurrence of Water-borne Fungi in Konaje Stream (Mangalore), India,  
W85-04387

1808 2H

**MANHATTAN COLL., BRONX, NY. DEPT. OF CHEMICAL ENGINEERING.**

Ultrafiltration Processes for the Characterization and Separation of Landfill Leachates,  
W85-04985

1810 5A

**MANHATTAN COLL., BRONX, NY. DEPT. OF CIVIL ENGINEERING.**

Water Quality Analysis of New York Harbor Complex,  
W85-03801

1808 5B

**MANHATTAN COLL., BRONX, NY. DEPT. OF ENVIRONMENTAL ENGINEERING AND SCIENCE.**

Dual Nonsteady-State Evaluation of Static Aerators Treating Pharmaceutical Waste,  
W85-05252

1810 5D

Comparison of Dome and Static Aerators Treating Pharmaceutical Waste,  
W85-05413

1810 5D

**MANHATTAN COLL., BRONX, NY. ENVIRONMENTAL ENGINEERING AND SCIENCE GRADUATE PROGRAM.**

Physico-Chemical and Ecological Modeling the Fate of Toxic Substances in Natural Water Systems,  
W85-00263

1801 5B

Probability Model of Stream Quality Due to Runoff,  
W85-00718

1802 5B

**MANHATTAN COLL., BRONX, NY. LAB. OF PLANT MORPHOGENESIS.**

Frequency Distributions for Durations and Volumes of Rainfalls in the Eastern United States in Relation to Acidic Precipitation,  
W85-02926

1806 2B

Botanical Aspects of Acidic Precipitation,  
W85-04176

1808 5C

**MANITOBA DEPT. OF NATURAL RESOURCES, WINNIPEG.**

Status of Colonial Waterbirds Nesting in Southern Manitoba,  
W85-06844

1812 2H

**MANITOBA UNIV., WINNIPEG. DEPT. OF BOTANY.**

Effect of an Aquatic Herbicide on Sediment Nutrient Flux in a Freshwater Marsh,  
W85-06386

1812 5C

**MANITOBA UNIV., WINNIPEG. DEPT. OF CIVIL ENGINEERING.**

Flood Warnings and Flood Responses for the Red River of the North,  
W85-02988

1806 6E

Practical Implications in the Use of Stochastic Dynamic Programming for Reservoir Operation,  
W85-06240

1812 4A

Effect of Clustering of Flood Peaks on a Flood Risk Analysis for the Red River,  
W85-06553

1812 2E

**MANITOBA UNIV., WINNIPEG. DEPT. OF EARTH SCIENCES.**

Sedimentology of Playa Lakes of the Northern Great Plains,  
W85-00957

1802 2J

Sedimentology and Geochemistry of Saline Lakes of the Great Plains,  
W85-05760

1810 2H

**MANITOBA UNIV., WINNIPEG. DEPT. OF ENTOMOLOGY.**

Breakdown of Conifer Needle Debris in a New Northern Reservoir, Southern Indian Lake, Manitoba,  
W85-00639

1802 2H

**MARATHWADA AGRICULTURAL UNIV., PARBHANI (INDIA). DEPT. OF BIOMETEOROLOGY.**

Extreme Probability Analysis of Drought Periods in Monsoon in Relation to Water Need of Crop Stages,  
W85-05090

1810 2B

**MARATHWADA UNIV., AURANGABAD (INDIA). DEPT. OF ZOOLOGY.**

Effect of Some Molluscicides on the Rate of Survival and Oxygen Consumption of a Freshwater Leech, *Poecilobdella viridis* (Blanchard),  
W85-04376

1808 5C

**MARBURG UNIV. (GERMANY, F.R.). FACHBEREICH BIOLOGIE.**

Above Ground Standing Crop and Production of *Carex gracilis* Curt. in a Fen,  
W85-02242

1805 2L

**MARIE CURIE-SKŁODOWSKA UNIV., LUBLIN (POLAND). DEPT. OF ANALYTICAL CHEMISTRY AND INSTRUMENTAL ANALYSIS.**

Electrochemical Determination of Pollutants in Sea Water: Toxic Substances and Nutrients,  
W85-02312

1805 7B

**MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM, PLYMOUTH (ENGLAND).**

Availability of Arsenic to Estuarine and Marine Organisms: A Field and Laboratory Evaluation,  
W85-01368

1803 5B

**MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM, PLYMOUTH (ENGLAND).**

Statistical Analysis of Estuarine Profiles: II Application to Arsenic in the Tamar Estuary (S.W. England),  
W85-01914

1804 5B

**MARINE BIOLOGICAL LAB., WOODS HOLE, MA.**

Nitrogen-15 Isotope Dilution Study of Ammonium Production and Consumption in a Marsh Sediment,  
W85-02787

1806 2L

**MARINE BIOLOGICAL LAB., WOODS HOLE, MA. ECOSYSTEMS CENTER.**

Pyrite Formation and the Measurement of Sulfate Reduction in Salt Marsh Sediments,  
W85-01332

1803 2L

Determination of Total Reduced Sulfur in Natural Waters,  
W85-01596

1803 5A

Nitrogen and Phosphorus in the Sediments of a Tidal, Freshwater Marsh in Massachusetts,  
W85-02395

1805 2J

**MARINE LAB., ABERDEEN (SCOTLAND).**

Underwater Experiments on the Effects of Sewage Sludge on a Marine Ecosystem,  
W85-01628

1803 5C

**MARINE POLLUTION LAB., CHARLOTTENLUND (DENMARK).**

Mercury Levels in Fish, Invertebrates and Sediment in a Recently Recorded Polluted Area (Nissum Broad, Western Limfjord, Denmark),  
W85-00801

1802 5B

**MARINE RESEARCH AND TRAINING CENTER, PIRAN (YUGOSLAVIA).**

Distribution of <sup>137</sup>Cs in Surface Intertidal Sediments from the Solway Firth,  
W85-00201

1801 5B

**MARION COUNTY HEALTH DEPT., INDIANAPOLIS, IN. BUREAU OF ENVIRONMENTAL HEALTH.**

Polluting Sewers Brought Under Control,  
W85-04403

1808 5D

Polluting Sewers Brought Under Control,  
W85-05470

1810 5G

**MARITIMES FOREST RESEARCH CENTRE, FREDERICTON (NEW BRUNSWICK).**

Partitioning and Short-Term Persistence of Fenitrothion in New Brunswick (Canada) Headwater Streams,  
W85-02190

1805 5B

**MARQUETTE UNIV., MILWAUKEE, WI. DEPT. OF CIVIL ENGINEERING.**

Estimating Nonpoint Pollution from Small Urban Watersheds,  
W85-07055

1812 5B

**MARSHALL UNIV., HUNTINGTON, WV. DEPT. OF BIOLOGICAL SCIENCES.**

Step-Wise Discriminant Analysis of the Effects of Long Term Coal Mine Drainage and Coal Dredging on Phytoplankton of the Guyandotte River,  
W85-01480

1803 5C

Effects of pH on Toxicity of As, Cr, Cu, Ni, and Zn to *Seleniastrum capricornutum* Printz,  
W85-04066

1808 5C

**MARTIN-LUTHER-UNIV. HALLE-WITTENBERG, HALLE (GERMAN D.R.).**

Influence of Different Levels of Soil Moisture as Well as of Nitrogen and Potassium Fertilizer on the Yield and Quality of Potatoes in Maturity Group IV. Second Report: Growth, Yield, and Yield Components (Der Einfluss Unterschiedlicher Bodenfeuchtestufen sowie Stickstoff- und Kaliumdüngungsstufen auf Ertrag und Qualität von Kartoffeln der Reife gruppe IV),  
W85-06523

1812 2I

Cryptogams of Flowing Waters - Bioindicators of Water Quality (Fließgewässerkryptogamen - Bioindikatoren der Wasserqualität),  
W85-06525

1812 5A

**MARTIN-LUTHER-UNIV. HALLE-WITTENBERG, HALLE (GERMAN D.R.). SEKTION GEOGRAPHIE.**

Suspended Solids Load of the Tributaries of the Sussen See (Die Schwebstoffbelastung der Zuflüsse zum Sussen See),  
W85-06524

1812 2J

**MARYLAND DEPT. OF HEALTH AND MENTAL HYGIENE, BALTIMORE.**

Trace Metal Residues in Shellfish from Maryland Waters, 1976-1980,  
W85-04436

1809 5B

Organochlorine Residues in Shellfish from Maryland Waters, 1976-1980,  
W85-04437

1809 5B

## ORGANIZATIONAL INDEX

### MARYLAND DEPT. OF HEALTH AND MENTAL HYGIENE, BALTIMORE. OFFICE OF

#### MARYLAND DEPT. OF HEALTH AND MENTAL HYGIENE, BALTIMORE. OFFICE OF ENVIRONMENTAL PROGRAMS.

Eutrophication Control and the Fallacy of Nitrogen Removal,  
W85-04774 1809 5G

#### MARYLAND UNIV., BALTIMORE COUNTY, BALTIMORE. DEPT. OF BIOLOGICAL SCIENCES.

Hypoxic Stress in Copepods,  
W85-00078 1801 5C

#### MARYLAND UNIV., CAMBRIDGE. CENTER FOR ENVIRONMENTAL AND ESTUARINE STUDIES.

Differential Accumulation of Selenium among Axial Muscle, Reproductive and Liver Tissues of Four Warmwater Fish Species,  
W85-01385 1803 5C

#### MARYLAND UNIV., CAMBRIDGE. HORN POINT ENVIRONMENTAL LABS.

Coupling of Nitrification and Denitrification in Two Estuarine Sediments,  
W85-01333 1803 2L

Uptake and Phytotoxicity of Soil-Sorbed Atrazine for the Submerged Aquatic Plant, Potamogeton perfoliatus L.,  
W85-02205 1805 5C

Influence of Waves and Seagrass Communities on Suspended Particulates in an Estuarine Embayment,  
W85-03347 1807 2L

Temporal Responses of the Macrophyte, Potamogeton perfoliatus L., and Its Associated Auto-trophic Community to Atrazine Exposure in Estuarine Microcosms,  
W85-05708 1810 5C

Vertical Distribution of Zooplankton and Physico-Chemical Conditions During a 24-hour Period in an Amazon Floodplain Lake - Lago Calado, Brazil,  
W85-06449 1812 2H

#### MARYLAND UNIV., COLLEGE PARK. DEPT. OF AGRICULTURAL ENGINEERING.

Disposal of Secondary Treated Municipal Sewage by Subsurface Irrigation,  
W85-00060 1801 5E

Blue Crab Processing Plant Effluent Treatment,  
W85-01741 1804 5D

#### MARYLAND UNIV., COLLEGE PARK. DEPT. OF AGRONOMY.

Nonpoint Source Loading of Toxic Substances from Decomposing Crop Residue,  
W85-00075 1801 5B

Phosphorus Renovation of Wastewater by Overland Flow Land Application,  
W85-00076 1801 5D

Nutrient Losses in Runoff from Conventional and No-Till Corn Watersheds,  
W85-01290 1803 5B

Saving the Chesapeake: Maryland's Agricultural Education Program,  
W85-05953 1811 5G

Aflatoxin Movement in Soil,  
W85-06719 1812 5B

#### MARYLAND UNIV., COLLEGE PARK. DEPT. OF BOTANY.

Effects of the Herbicide Atrazine on an Oyster Food Organism,  
W85-01808 1804 5C

#### MARYLAND UNIV., COLLEGE PARK. DEPT. OF CHEMISTRY.

Investigation of Mercury-Amino Acid Complexes in the Aqueous Environment,  
W85-00077 1801 5A

Dechlorination and Trihalomethane Yields,  
W85-06527 1812 5F

#### MARYLAND UNIV., COLLEGE PARK. DEPT. OF CIVIL ENGINEERING.

Liquid/Suspended Solid Phase Partitioning of Polycyclic Aromatic Hydrocarbons in Coal Coking Wastewaters,  
W85-00554 1802 5D

Estimating Urban Time of Concentration,  
W85-01557 1803 2E

#### MARYLAND UNIV., COLLEGE PARK. DEPT. OF GEOGRAPHY.

Historical and Projected Shoreline Changes, Ocean City and North Assateague Island, Maryland,  
W85-00074 1801 2J

State Laws Mandating Water Conservation,  
W85-01806 1804 6E

Recent Vertical Accretion Rates at Blackwater Wildlife Refuge,  
W85-01809 1804 2L

State Water Conservation Strategies and Activities,  
W85-03133 1806 6F

#### MARYLAND UNIV., COLLEGE PARK. DEPT. OF GEOLOGY.

Erosion and Sedimentation Chronology of Three Watersheds in Maryland,  
W85-01835 1804 2J

#### MARYLAND UNIV., COLLEGE PARK. DEPT. OF MICROBIOLOGY.

Influence of Water Temperature, Salinity, and pH on Survival and Growth of Toxigenic Vibrio cholerae Serovar O1 Associated with Live Copepods in Laboratory Microcosms,  
W85-02601 1805 5B

Influence of Chlorine on the Susceptibility of Striped Bass (*Morone saxatilis*) to *Vibrio anguilarum*,  
W85-03001 1806 5C

Numerical Taxonomy of Phenanthrene-Degrading Bacteria Isolated from the Chesapeake Bay,  
W85-03433 1807 5B

#### MARYLAND UNIV., COLLEGE PARK. DEPT. OF RECREATION.

Investigation of the Carrying Capacity of the Monocacy River as a Scenic and Recreational Resource, Volume III. The Monocacy River - Analysis of Existing Situation and Recommendations for Protecting the River Resource,  
W85-00073 1801 6D

Investigation of the Carrying Capacity of the Monocacy River as a Scenic and Recreational Resource, Volume II. Characteristics and Interpretations of Selected Social and Environmental Considerations Important to the Monocacy River,  
W85-00606 1802 6G

#### MARYLAND UNIV., COLLEGE PARK. DEPT. OF ZOOLOGY.

Quantification of Stream Drift,  
W85-04842 1809 2H

#### MARYLAND UNIV., SOLOMONS. CENTER FOR ENVIRONMENTAL AND ESTUARINE STUDIES.

Effect of Water Chlorination on the Toxicity of Copper to Phytoplankton,  
W85-05581 1810 5C

#### MARYLAND UNIV., SOLOMONS. CHESAPEAKE BIOLOGICAL LAB.

Sorption of Polycyclic Aromatic Hydrocarbons by Natural Estuarine Colloids,  
W85-01349 1803 5B

Intraspecific Variation in Copper Susceptibility of the Bluegill Sunfish,  
W85-02194 1805 5C

Reaction of Dissolved Chlorine with Surficial Sediment: Oxidant Demand and Production of Trihalomethanes,  
W85-06149 1811 5B

#### MARYLAND WATER RESOURCES ADMINISTRATION, ANNAPOLIS.

Urban Sediment and Stormwater Control: The Maryland Experience,  
W85-05951 1811 4D

#### MASSACHUSETTS AUDUBON SOCIETY, LINCOLN.

Organochlorine Residues in Common Terns and Associated Estuarine Organisms, Massachusetts, USA, 1971-81,  
W85-04861 1809 5B

#### MASSACHUSETTS COOPERATIVE EXTENSION SERVICE, AMHERST.

COMMUNITY RESOURCE DEVELOPMENT. Municipal Watershed Management - A Unique Opportunity in Massachusetts,  
W85-01621 1803 5G

#### MASSACHUSETTS COOPERATIVE FISHERY RESEARCH UNIT, AMHERST.

Mortality of Adult American Shad Passing Through a 17-Megawatt Kaplan Turbine at a Low-Head Hydroelectric Dam,  
W85-05879 1811 6G

#### MASSACHUSETTS DEPT. OF ENVIRONMENTAL QUALITY ENGINEERING, BOSTON.

Rebuilding Water Supply Infrastructure,  
W85-07058 1812 5F

#### MASSACHUSETTS INST. OF TECH., CAMBRIDGE.

Photoreductive Dissolution of Colloidal Iron Oxides in Natural Waters,  
W85-03057 1806 2K

#### MASSACHUSETTS INST. OF TECH., CAMBRIDGE. DEPT. OF CIVIL ENGINEERING.

Field Measurements on Side Arms of Lake Anna, VA.,  
W85-00729 1802 8B

Physically Based Flood Frequency Distribution,  
W85-02168 1804 2E

Neutralization of Acid Deposition by Nitrate Retention at Bickford Watershed, Massachusetts,  
W85-03572 1807 5C

Conditional Distributions of Neyman-Scott Models for Storm Arrivals and Their Use in Irrigation Scheduling,  
W85-05795 1810 2B

#### MASSACHUSETTS INST. OF TECH., CAMBRIDGE. DEPT. OF EARTH AND PLANETARY SCIENCES.

Reverse Weathering in the Closed-Basin Lakes of the Ethiopian Rift,  
W85-02468 1805 2K

#### MASSACHUSETTS INST. OF TECH., CAMBRIDGE. DEPT. OF MECHANICAL ENGINEERING.

Excitation of Long Nonlinear Water Waves by a Moving Pressure Distribution,  
W85-00716 1802 8B

## ORGANIZATIONAL INDEX

### MAX-PLANCK-INST. FUER LIMNOLOGIE ZU PLOEN (GERMANY, F.R.).

<b>MASSACHUSETTS METROPOLITAN DISTRICT COMMISSION, SOUTHBOROUGH. WATER DIV.</b>		
Design and Construction of the Agus IV Power Cavern, Part Two: Design and Construction, W85-01552	1803 8A	
Fundamentals of Chlorination, W85-01622	1803 5F	
Considerations Involved in the Reactivation of an Existing Water Supply, W85-07056	1812 5F	
<b>MASSACHUSETTS UNIV., AMHERST.</b>		
Airborne Microwave Measurements of the Southern Greenland Ice Sheet, W85-04962	1809 2C	
<b>MASSACHUSETTS UNIV., AMHERST. DEPT. OF CIVIL ENGINEERING.</b>		
Evaluation of the Visibility Criterion of the Massachusetts Sanitary Code for Swimming in Natural Waters, W85-01800	1804 6E	
Multiple Bioassays to Assess the Toxicity of a Sanitary Landfill Leachate, W85-02202	1805 5A	
Tradeoffs in Water Quality Management, W85-03063	1806 5D	
Bed Load or Suspended Load, W85-04397	1808 2J	
Equilibrium Boundary Condition for Suspension, W85-04398	1808 2J	
Temperature and Nutrient Effects on the Anaerobic Expanded Bed Treating a High Strength Waste, W85-05547	1810 5D	
Surrogate Parameters for Monitoring Organic Matter and THM Precursors, W85-06491	1812 5F	
<b>MASSACHUSETTS UNIV., AMHERST. DEPT. OF ENVIRONMENTAL SCIENCES.</b>		
Laboratory Assessment of the Toxicity of Urban Runoff on the Fathead Minnow ( <i>Pimephales promelas</i> ), W85-02124	1804 5C	
Effect of Mineral Acids and Aluminum from Coal Leachate on Substrate Periphyton Composition and Productivity, W85-02246	1805 5C	
Toxicity and Binding of Copper, Zinc, and Cadmium by the Blue-Green Alga, <i>Chroococcus paris</i> , W85-02922	1806 5C	
Effects of Trichloroacetic Acid, a New Contaminant Found from Chlorinating Water with Organic Material, on Dragonfly Nymphs, W85-04478	1809 5C	
Changes in Oxygen Consumption and Nitrogen Metabolism in the Dragonfly Somatochlora cingulata Exposed to Aluminum in Acid Waters, W85-05867	1811 5C	
Microbiological Control of Eurasian Watermilfoil, W85-06938	1812 4A	
<b>MASSACHUSETTS UNIV., AMHERST. DEPT. OF FORESTRY AND WILDLIFE MANAGEMENT.</b>		
Role of Forestry in Dry Africa, W85-05467	1810 4D	
<b>MASSACHUSETTS UNIV., AMHERST. DEPT. OF PUBLIC HEALTH.</b>		
Comparison of How the United States and Canada Set Drinking Water Regulations, W85-00942	1802 6E	
<b>MASSACHUSETTS UNIV., AMHERST. DEPT. OF ZOOLOGY.</b>		
Fayetteville Green Lake, New York, U.S.A. VII. Varve Chronology and Sediment Focusing, W85-01101	1802 2J	
<b>MASSACHUSETTS UNIV., AMHERST. DIV. OF ENVIRONMENTAL HEALTH.</b>		
Toxicological Effects of Chlorite in the Mouse, W85-01202	1803 5F	
<b>MASSACHUSETTS UNIV., AMHERST. DIV. OF PUBLIC HEALTH.</b>		
Health Effects Among Newborns After Prenatal Exposure to ClO <sub>2</sub> -Disinfected Drinking Water, W85-01203	1803 5F	
Lack of Nephrotoxicity in the Rat by Sodium Chlorite, a Possible Byproduct of Chlorine Dioxide Disinfection in Drinking Water, W85-02119	1804 5F	
<b>MASSEY UNIV., PALMERSTON NORTH (NEW ZEALAND).</b>		
History and Present Vegetation of the Macrophyte Swamp at Pukepuke Lagoon, W85-03023	1806 2H	
<b>MASSEY UNIV., PALMERSTON NORTH (NEW ZEALAND). DEPT. OF BIOTECHNOLOGY.</b>		
Organic Wastewater Effects on Benthic Invertebrates in the Manawatu River, W85-01632	1804 5C	
<b>MASSEY UNIV., PALMERSTON NORTH (NEW ZEALAND). DEPT. OF MICROBIOLOGY AND GENETICS.</b>		
Effect of Baquacil on Pathogenic Free-Living Amoebae (PFLA) 3. Increased Baquacil Concentration and Exposure Time in the Presence of Bacteria, W85-02506	1805 5F	
<b>MASSEY UNIV., PALMERSTON NORTH (NEW ZEALAND). DEPT. OF SOIL SCIENCE.</b>		
Drainage Losses of Potassium from a Yellow-Grey Earth Soil, W85-06183	1812 2K	
<b>MASSPEC ANALYTICAL SPECIALTY SERVICES LTD., STROUD (ENGLAND).</b>		
Physico-Chemical Speciation of Polycyclic Aromatic Hydrocarbons (PAH) in Aquatic Systems, W85-03282	1807 5B	
<b>MAX C. FLEISCHMANN COLL. OF AGRICULTURE, RENO, NV.</b>		
Agricultural Water Pollution Control: An Interdisciplinary Approach, W85-05067	1810 6B	
<b>MAX-PLANCK-INST. FUER CHEMIE, MAINZ (GERMANY, F.R.).</b>		
Production and Consumption of Hydrogen in a Eutrophic Lake, W85-00104	1801 2H	
Production and Consumption of Carbon Monoxide in a Eutrophic Lake, W85-01585	1803 2H	
<b>MAX-PLANCK-INST. FUER LIMNOLOGIE, SCHLITZ (GERMANY, F.R.).</b>		
Limnologische Flussstation. New Method for the Investigation of Bacterial Occurrence in Groundwater-Bearing Sandy Sediments (Ein neues Verfahren zur Untersuchung der bakteriellen Besiedlung grundwasser-fuehrender sandiger Sedimente), W85-00768	1802 5A	
Stability and Changes of Biomass of Emerging Insects and Their Possible Causes, W85-05684	1810 2H	
<b>MAX-PLANCK-INST. FUER LIMNOLOGIE ZU PLOEN (GERMANY, F.R.).</b>		
Seasonal Variation of Water Chemistry of the Middle Amazon Varzea-Lake Lago Calado (Jahreszeitliche Chemische Veranderungen in Einem Varzea-See des Mittleren Amazonas (Lago Calado, Brasilien)), W85-00764	1802 2H	
Development of Aquatic Macrophytes in Curuá-Una, the First Man-Made Lake in Central Amazonia (Zur Entwicklung Aquatischer Makrophyten in Curuá-Una, Dem Ersten Stausee in Zentralamazonien), W85-00766	1802 2H	
Solar Energy and Quanta in Baltic Lakes, W85-00767	1802 2H	
Methanogenesis in Sediments of Inland Waters; 1. Methanol as the Dominant Methane 'Precursor' in the Sediments of an Eutrophic Lake (Methanogenese im Sediment der Binnengewässer 1. Methanol als dominanter Methan-Precursor im Sediment eines eutrophen Sees), W85-00769	1802 2H	
Nutrient Supply of Lake Grebiner See by Atmospheric Precipitation and Surface Run-off from the Watershed Area (Nährstoffzufuhr des Grebiner Sees durch Atmospharische Niederschläge und Oberflächenabschwemmung des Einzugsgebietes), W85-00770	1802 2H	
Limnological Survey of Three Greek Lakes: Trichonis, Lyssimachia and Amvrakia (Ein Limnologischer Überblick von drei Griechischen Seen: Trichonis, Lyssimachia und Amvrakia), W85-00771	1802 2H	
Primary Production of Various Size Fractions of Natural Phytoplankton Communities in a North German Lake (Primärproduktion verschiedener Grossenfraktionen der natürlichen Phytoplanktongemeinschaften in einem norddeutschen See), W85-00772	1802 2H	
Relation Between Tropical Rivers and the Terrestrial Environment and the Effect on Both of Human Interference (Tropische Flüsse in ihren Beziehungen zur terrestrischen Umgebung und im Hinblick auf menschliche Eingriffe), W85-00775	1802 6G	
Preliminary Characterization of the Tropical Lakes of the Central Amazon by Comparison with Polar and Temperate Systems, W85-00869	1802 2H	
Role of Phosphatases in Phosphorus Mineralization During Decomposition of Lake Phytoplankton Blooms, W85-03230	1807 2H	
Distribution, Dynamic and Structure of Free Dissolved Carbohydrates in the Plussee, a North German Eutrophic Lake, W85-04552	1809 2H	
Comparison of Leaching Losses from Decomposing Litter of the Terrestrial and Marsh Plants on Land and in Water, W85-04553	1809 2L	
Methanogenesis in Sediments of Eutrophic Lakes; 2. Comparative Investigations on the Methane-Precursor Preference, W85-04554	1809 2H	

## ORGANIZATIONAL INDEX

### MAX-PLANCK-INST. FUER LIMNOLOGIE ZU PLOEN (GERMANY, F.R.).

Seasonal Variation of the Major Cation Content of the Varzea-Lake Lago Camaleao, Middle Amazon, Brazil, in 1981 and 1982, W85-04570	1809 2H	MCGRAW-EDISON CO., BUFFALO, NY. WORTHINGTON GROUP.	
Measurement and Comparative Values of the Short Circuit Metabolism (SCM) of Lakes by POC Relationship of Primary Production of Phytoplankton and Settling Matter, W85-04701	1809 2H	Pumps Prove Versatile as Hydraulic Turbines, W85-01539	1803 8C
<b>MAXIMUS, INC., MCLEAN, VA.</b>		<b>MCKINNON, ALLEN AND ASSOCIATES LTD., CALGARY (ALBERTA).</b>	
Impact of Nutrient Load on Total Biomass and Species Succession in Lake Suwa, Japan, W85-04565	1809 5C	Acid Deposition near a Sour Gas Plant in Southwestern Alberta, W85-06373	1812 5B
<b>MCGILL UNIV., MONTREAL (QUEBEC). DEPT. OF BIOLOGY.</b>		<b>MCLAREN ENVIRONMENTAL ENGINEERING, INC., SACRAMENTO, CA.</b>	
Empirical Prediction of Crustacean Zooplankton Biomass and Profundal Macrofauna Biomass in Lakes, W85-00152	1801 2H	Suction Side Sample Catcher in Ground Water Quality Sampling, W85-03174	1806 5A
Biological Availability of Soluble Reactive Phosphorus in Anoxic and Oxic Freshwaters, W85-00892	1802 2H	<b>MCMAHON ASSOCIATES, INC., MENASHA, WI.</b>	
Method for the Analysis of Total Nitrogen in Natural Waters, W85-00896	1802 5A	Characterization of Non-Point Waste Sources, Report No. 6: Summary of Non-Point Waste Loads, (Fox River Valley, Wisc.), W85-00833	1802 5B
Dependence of Hypolimnetic Oxygen Consumption on Ambient Oxygen Concentration: Fact or Artifact, W85-02149	1804 2H	<b>MCMASTER UNIV., HAMILTON (ONTARIO). DEPT. OF BIOLOGY.</b>	
Effects of Turbulence on Phosphorus Supply in a Shallow Bay of Lake Memphremagog, W85-02617	1805 2H	Phytoplankton Population Dynamics of a Small Reservoir: Effect of Intermittent Mixing on Phytoplankton Succession and the Growth of Blue-green Algae, W85-01916	1804 2H
Importance of Internal Phosphorus Load to the Eutrophication of Lakes with Anoxic Hypolimnia, W85-02618	1805 5C	Development of a Rapid, Sensitive and Quantitative Test for the Assessment of the Effects of Xenobiotics on Reproduction in Fish, W85-05895	1811 5A
Effects of Phosphorus Fertilization on Phytoplankton Biomass and Phosphorus Retention in Subarctic Quebec Lakes, W85-02635	1805 2H	<b>MCMASTER UNIV., HAMILTON (ONTARIO). DEPT. OF CHEMICAL ENGINEERING.</b>	
Phosphate Exchange Between Littoral Sediments and Overlying Water in an Oligotrophic North-Temperate Lake, W85-03599	1807 2H	Precipitation of Phosphorus from Wastewater Through pH Variation in the Presence and Absence of Coagulants, W85-02438	1805 5D
<b>MCGILL UNIV., MONTREAL (QUEBEC). DEPT. OF GEOGRAPHY.</b>		Effect of Filter Pore Size on the Evaluation of Aluminum Coagulants to Remove Fulvic Acid from Water, W85-02919	1806 5F
Meandering-Braided River Threshold: A Reappraisal, W85-02492	1805 2E	Aluminum Hydrolysis Effects on Phosphorus Removal from Wastewaters, W85-03868	1808 5D
<b>MCGILL UNIV., MONTREAL (QUEBEC). GEOTECHNICAL RESEARCH CENTRE.</b>		Sensitivity Analysis of Reservoir Oxygen Model, W85-04585	1809 2H
Forms of Phosphorus and Phosphorus-Iron Relationships in the Suspended Matter of the St. Lawrence Estuary, W85-03764	1807 2L	<b>MCMASTER UNIV., HAMILTON (ONTARIO). DEPT. OF CHEMISTRY.</b>	
Stability and Settling of Suspended Solids in Settling Ponds. Part II. Diffusion Analysis of Initial Settling of Suspended Solids, W85-05527	1810 2J	Two-Column Method for Preconcentration of Trace Metals in Natural Waters on Acrylate Resin, W85-05518	1810 5A
<b>MCGILL UNIV., MONTREAL (QUEBEC). INST. OF OCEANOGRAPHY.</b>		<b>MCMASTER UNIV., HAMILTON (ONTARIO). DEPT. OF CIVIL ENGINEERING AND ENGINEERING MECHANICS.</b>	
Near Bottom Variations of Turbidity in the St. Lawrence Estuary, W85-04677	1809 2L	Parameter Identification of Time-Varying Noisy Difference Equations for Real-Time Urban Runoff Forecasting, W85-01167	1803 2E
<b>MCGILL UNIV., MONTREAL (QUEBEC). REDPATH MUSEUM.</b>		Sensitivity and Application of Difference Equation Models to Real-Time Urban Runoff Forecasting, W85-01168	1803 2E
Distribution and Flux of Particulate Matter in the Bideford River Estuary, Prince Edward Island, Canada, W85-00912	1802 2L	Interrelationship between Lule City Lakes, W85-01560	1803 2H
Water Temperature Change Caused by Abstraction, W85-01561	1803 6G	<b>MEANS (R.S.) CO., KINGSTON, MA.</b>	
Evolving Data Processing Environment For Computational Hydraulics Systems, W85-01709	1804 7C	Planning Water Supply Projects: The Systems Estimate, W85-06947	1812 6C
Pilot Experiments on Thermal Bar in Lock Exchange Flow, W85-02443	1805 8B	<b>MEAT INDUSTRY RESEARCH INST. OF NEW ZEALAND, HAMILTON.</b>	
Two-Stage Urban Runoff Forecast Model, W85-03065	1806 2E	Recovery of Protein from Slaughterhouse Effluents by Double Adjustment of pH, W85-05253	1810 5D

## ORGANIZATIONAL INDEX

### METEOROLOGISCHER DIENST DER DDR, BERLIN, FORSCHUNGSIINSTITUT FUER

**MEDICAL COLL. OF VIRGINIA,  
RICHMOND, DEPT. OF PHARMACOLOGY.**

Toxicology of Organic Drinking Water Contaminants: Trichloromethane, Bromodichloromethane, Dibromochloromethane and Tribromomethane,  
W85-01211 1803 5C

Behavioral Toxicity of Trihalomethane Contaminants of Drinking Water in Mice,  
W85-01212 1803 5C

**MEIHO HIGH SCHOOL, KANAZAWA CITY (JAPAN).**

Water Quality Assessment of Seven Rivers in Noto Peninsula Using Epilithic Diatom Communities on River Bed as Biological Indicators (in Japanese),  
W85-02255 1805 5A

**MEKOROT WATER CO., TIBERIAS (ISRAEL).**

Water Quality Forecasting for Real-Time Control of Irrigation Pumping Schedules,  
W85-01417 1803 3C

**MELBOURNE AND METROPOLITAN BOARD OF WORKS (AUSTRALIA).**

Determination of the Evapotranspiration of E-regnans Forested Catchments Using Hydrological Measurements,  
W85-06669 1812 2D

**MELBOURNE AND METROPOLITAN BOARD OF WORKS (AUSTRALIA).**

Interactive Computer Modeling, Monitoring, and Control of Melbourne's Water Supply System,  
W85-05492 1810 5F

**MELBOURNE UNIV., PARKVILLE (AUSTRALIA). AGRICULTURAL ENGINEERING SECTION.**

Sequential Generation of Short Time-Interval Rainfall Data,  
W85-01235 1803 2B

Stochastic Simulation of Evaporation Data for Australia,  
W85-01236 1803 2D

Shallow Flow of Water Through Non-Submerged Vegetation,  
W85-06684 1812 2E

**MELBOURNE UNIV., PARKVILLE (AUSTRALIA). DEPT. OF CIVIL ENGINEERING.**

Evapotranspiration - How Good is the Bowen Ratio Method,  
W85-06672 1812 2D

**MELBOURNE UNIV., PARKVILLE (AUSTRALIA). DEPT. OF GEOGRAPHY.**

Trace Metals in Sediments from the Yarra River,  
W85-00780 1802 5B

**MELBOURNE UNIV., PARKVILLE (AUSTRALIA). FORESTRY SECTION.**

Hydrologic Behaviour of a Small Forested Catchment,  
W85-06052 1811 2A

**MELBOURNE UNIV., PARKVILLE (AUSTRALIA). MARINE CHEMISTRY LAB.**

Simultaneous Spectrophotometric Determination of Humic Acid and Iron in Water,  
W85-01077 1802 5A

Aromatic Hydrocarbons in Waters of Port Phillip Bay and the Yarra River Estuary,  
W85-01644 1804 5B

**MEMORIAL UNIV. OF NEWFOUNDLAND, ST. JOHN'S.**

Aspects of the Ecology of the Fishes of Holymood Pond: A Coastal Lake with Occasional Access to the Sea Located in St. Mary's Bay, Newfoundland,  
W85-02563 1805 2H

**BASIC Hydrology,**  
W85-06931 1812 2A

**MEMORIAL UNIV. OF NEWFOUNDLAND, ST. JOHN'S. CENTRE FOR COLD OCEAN RESOURCES ENGINEERING.**

Microwave Systems for Detecting Oil Slicks in Ice-Infested Waters: Phase 1, Literature Review and Feasibility Study.  
W85-06942 1812 5A

**MEMORIAL UNIV. OF NEWFOUNDLAND, ST. JOHN'S. DEPT. OF EARTH SCIENCES.**

Effects of Groundwater Geochemistry on the Permeability of Grouted Fractures,  
W85-03416 1807 2F

**MEMORIAL UNIV. OF NEWFOUNDLAND, ST. JOHN'S. DEPT. OF PHYSICS.**

Elastic Constants of Artificial and Natural Ice Samples by Brillouin Spectroscopy,  
W85-03346 1807 2C

**MEMORIAL UNIV. OF NEWFOUNDLAND, ST. JOHN'S. FACULTY OF ENGINEERING AND APPLIED SCIENCE.**

Scaling the Weight of Breakwater Armor Units,  
W85-07081 1812 8A

**MEMTEK CORP., WOBURN, MA.**

Advanced Membrane Filtration Process Treats Industrial Wastewater Efficiently,  
W85-05770 1810 5D

**MERCK AND CO., INC., RAHWAY, NJ.**

Single Stage Nitrification Activated Sludge Pilot Plant Study on a Bulk Pharmaceutical Manufacturing Wastewater,  
W85-05412 1810 5D

Fate of Nitrate in a Single Stage Nitrification Activated Sludge System,  
W85-05557 1810 5D

**MESSE GRIESHEIM G.M.B.H.,**

**DUESSELDORF (GERMANY, F.R.).**

Biozwei Tube-Reactor Procedure (Das Rohrreaktor-Versfahren Biozwei),  
W85-05141 1810 5D

**METCALF AND EDDY, INC., ARLINGTON HEIGHTS, IL.**

Wastewater Recycling in Muskegon County,  
W85-03796 1808 5D

**METCALF AND EDDY, INC., BOSTON, MA.**

Aquifer Protection Planning in the North Eastern United States,  
W85-01524 1803 5G

Nitrogen Cycle and Algal Growth Modeling,  
W85-03335 1807 5B

Upflow Clarification of New England Surface Water Supplies,  
W85-04018 1808 5F

Contract Operations - One Alternative for Water Treatment Facilities,  
W85-07061 1812 5F

**METCALF AND EDDY, INC., SACRAMENTO, CA.**

Process Design Manual, Land Treatment of Municipal Wastewater,  
W85-05194 1810 5D

**METCALF AND EDDY OF NEW YORK, NY.**

Evaluating Enclosed Composting Systems,  
W85-02299 1805 5E

Evaluating Dewatering Alternatives,  
W85-02992 1806 5E

Trends in Drinking Water Treatment; The Shape of Things to Come - Part I, Regulatory Direction,  
W85-06124 1811 5F

Trends in Drinking Water Treatment: The Shape of Things to Come; Part II - New Developments in Water Treatment,  
W85-06835 1812 5F

**METEOROLOGICAL AUTHORITY, CARIO (EGYPT).**

Measurements and Estimates of Potential Evapotranspiration over Egypt,  
W85-01059 1802 2D

**METEOROLOGICAL OFFICE, POONA (INDIA).**

Water Hyacinth Canopy and Pan Evaporation,  
W85-02128 1804 4A

Drought Prediction in India from Radiation Parameters,  
W85-05083 1810 2B

Some Climatological Aspects of Drought in India,  
W85-05086 1810 2B

Markov Chain Model for the Probability of Drought Incidence in India,  
W85-05091 1810 2B

Rainfall Over Lakes Around Bombay,  
W85-05094 1810 2B

Comparative Study of the Climatological Estimation of Potential Evapotranspiration,  
W85-05095 1810 2D

Prospects of Acid Rain Over India,  
W85-05100 1810 5B

**METEOROLOGICAL OFFICE, POONA (INDIA). AGRICULTURAL METEOROLOGY DIV.**

Quantification of Drought and Crop Potential,  
W85-05078 1810 2B

Application of Markov Chain Model in Determining Drought Proneness,  
W85-05092 1810 2B

Estimation of Weekly Potential Evapotranspiration,  
W85-05099 1810 2D

**METEOROLOGICAL SERVICE, WELLINGTON (NEW ZEALAND).**

Initial Model of the Relationship Between Rainfall Events and Daily Rainfalls,  
W85-04283 1808 2B

**METEOROLOGIE NATIONALE, PARIS (FRANCE).**

Classification of Daily, Monthly and Seasonal Rainfall over France (Typologie des Precipitations Quotidiennes, Mensuelles et Saisonnières sur La France),  
W85-00393 1801 2B

**METEOROLOGISCHER DIENST DER DDR, BERLIN, FORSCHUNGSIINSTITUT FUER HYDROMETEOROLOGIE.**

Calculation of Areal Precipitation Values and the Representativeness of Precipitation Measuring Networks (Zur Berechnung von Gebietswerten des Niederschlags und der Repräsentativität von Niederschlagsmeßnetzen),  
W85-03519 1807 2B

## ORGANIZATIONAL INDEX

### METEOROLOGISCHER DIENST DER DDR, BERLIN. FORSCHUNGSIINSTITUT FUER

Nomogram for Calculating Water Temperature and Additional Evaporation Losses in Thermally Polluted Surface Water (Ein Nomogramm zur Berechnung der Wassertemperatur und der Zusätzlichen Verdunstungsverluste Thermisch Belasteter Gewässer), W85-04325	1808 5B	MICHIGAN DEPT. OF NATURAL RESOURCES, LANSING.	Estimating Generalized Flood Skew Coefficients for Michigan, W85-00849	1802 2E	MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF ZOOLOGY.	Influence of Acid Precipitation on Stream Invertebrates, W85-01807	1804 5C
<b>METROPOLITAN COUNCIL, ST. PAUL, MN.</b>		<b>MICHIGAN DEPT. OF NATURAL RESOURCES, LANSING. BUREAU OF WATER MANAGEMENT.</b>	Field Comparison of Three Mass Transport Models, W85-04393	1808 5B	Effects of Nitrate, Phosphate and Potassium Fertilization on Growth and Nutrient Uptake Patterns of <i>Phragmites australis</i> (Cav.) Trin. ex Steudel, W85-05609	1810 2H	
Choosing Sewage Ash Disposal Sites in the Twin Cities Metropolitan Area, W85-05366	1810 5D	<b>MICHIGAN DEPT. OF PUBLIC HEALTH, LANSING.</b>	Ann Arbor Controls Trihalomethanes, W85-01911	1804 5F	<b>MICHIGAN STATE UNIV., HICKORY CORNERS. W.K. KELLOGG BIOLOGICAL STATION.</b>	Effects of Bryophytes on Succession from Alkaline Marsh to Sphagnum Bog, W85-00088	1801 2H
<b>METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO, IL.</b>		<b>MICHIGAN DEPT. OF PUBLIC HEALTH, LANSING. BUREAU OF LAB. AND EPIDEMIOLOGICAL SERVICES.</b>	Isolation of Legionella Species from Drinking Water, W85-02941	1806 5B	Sulfate Reducers Can Outcompete Methanogens at Freshwater Sulfate Concentrations, W85-00098	1801 2H	
Chicago Experience in Large-Scale Land Application, W85-05058	1810 5E	<b>MICHIGAN STATE UNIV., EAST LANSING.</b>	Low-Head Hydropower for Local Use, W85-04620	1809 6B	Effects of a Massive Swarm of Ants on Ammonium Concentrations in a Subalpine Lake, W85-00417	1801 2H	
Implementation of a User Charge System Incorporating a Dedicated Ad Valorem Tax Structure, W85-05277	1810 6C	<b>MICHIGAN STATE UNIV., EAST LANSING. CENTER FOR ENVIRONMENTAL TOXICOLOGY.</b>	Photoenhanced Toxicity of Anthracene to Juvenile Sunfish ( <i>Lepomis Spp.</i> ), W85-06439	1812 5C	Forms and Distribution of Carbon in Sediments of Castle Lake, California, U.S.A., W85-02648	1805 2H	
<b>MIAMI UNIV., CORAL GABLES, FL. COLL. OF ENGINEERING.</b>		<b>MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF AGRICULTURAL ECONOMICS.</b>	Paying the Nonpoint Pollution Control Bill, W85-05944	1811 5G	Molecular Weight Fractionation of Dissolved Organic Nitrogen and Carbon Compounds from Two Lakes of Differing Trophic Status, W85-03229	1807 5B	
Two-Dimensional Time-Dependent Simulation of Contaminant Transport from a Landfill, W85-02272	1805 5G	<b>MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF CIVIL AND SANITARY ENGINEERING.</b>	Spreading Layer of Two-Dimensional Buoyant Jet, W85-00731	1802 8B	<b>MICHIGAN TECHNOLOGICAL UNIV., HOUGHTON.</b>	Wet Oxidation for Industrial Waste Treatment, W85-05772	1810 5D
Model of Dispersion in Coastal Waters, W85-04394	1808 5B	<b>MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF CROP AND SOIL SCIENCES.</b>	Measurements to Quantify Wastewater Fields Produced by Outfall Diffusers, W85-00067	1801 5B	<b>MICHIGAN UNIV., ANN ARBOR.</b>	Modeling Organic Contaminant Partitioning in Ground-Water Systems, W85-02692	1805 5B
<b>MIAMI UNIV., CORAL GABLES, FL. DEPT. OF MECHANICAL ENGINEERING.</b>		<b>MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF FISHERIES AND WILDLIFE.</b>	Temporal Response of Soil Denitrification Rates to Rainfall and Irrigation, W85-05187	1810 2G	Removing Humic Substances by Chemical Treatment and Adsorption, W85-06492	1812 5F	
Heavy Metal Migration in Soil-Leachate Systems, W85-01868	1804 5B	<b>MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF FISHES AND WILDLIFE.</b>	Metal Speciation in Surface Waters of the Great Lakes Region, W85-01811	1804 5A	<b>MICHIGAN UNIV., ANN ARBOR. DEPT. OF ATMOSPHERIC AND OCEANIC SCIENCE.</b>	Atmospheric Trajectory Models for Diagnosing the Sources of Acid Precipitation, W85-05314	1810 5B
<b>MIAMI UNIV., OXFORD, OH.</b>		<b>MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF GEOLGY.</b>	Land Treatment of Municipal Wastewater: Selected Examples in the United States, W85-05324	1810 5D	<b>MICHIGAN UNIV., ANN ARBOR. DEPT. OF CHEMICAL ENGINEERING.</b>	Sedimentation and Sediment Accretion in Michigan Coastal Wetlands (U.S.A.), W85-01103	1802 2J
Optimization of a Wastewater Treatment Plant by the Employee Involvement Optimization System (EIOS), W85-03330	1807 5D	<b>MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF GEOLOGY.</b>	Predicting Concentration of Total Phosphorus and Chlorophyll a in a Lake with Short Hydraulic Residence Time, W85-06789	1812 2H	Implicit-Adsorbate Model for Apparent Anomalies with Organic Adsorption on Natural Adsorbents, W85-03663	1807 5B	
<b>MIAMI UNIV., OXFORD, OH. DEPT. OF BOTANY.</b>		<b>MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF RESOURCE DEVELOPMENT.</b>	Computerized Ground-Water Resources Information System, W85-05845	1810 2F	<b>MICHIGAN UNIV., ANN ARBOR. DEPT. OF CIVIL ENGINEERING.</b>	Two-Dimensional Surges and Shocks in Open Channels, W85-00730	1802 8B
Effects of Flooding on Vegetation at Salamonie Reservoir, W85-06847	1812 6G	<b>MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF SOIL SCIENCES.</b>	Predicting Variability in a Lake Ontario Phosphorous Model, W85-01758	1804 2H	Use of Fixed-Bed Adsorber Models to Predict the Fluxes of Toxic Substances in Groundwaters and Soil Environments, W85-01793	1804 5B	
<b>MIAMI UNIV., OXFORD, OH. DEPT. OF CHEMISTRY.</b>		<b>MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF ZOOLOGY.</b>			Multiphase Approach to the Modeling of Porous Media Contamination by Organic Compounds; I. Equation Development, W85-04787	1809 5B	
Lower Detection Limits Found for Chlorine Dioxide Contaminants, W85-01909	1804 5F	<b>MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF ZOOLOGY.</b>			Multiphase Approach to the Modeling of Porous Media Contamination by Organic Compounds; 2. Numerical Simulation, W85-04788	1809 5B	
Automated Iodometric Method for Determination of Trace Chlorate Ion Using Flow Injection Analysis, W85-05519	1810 5A	<b>MIAMI UNIV., OXFORD, OH. DEPT. OF ZOOLOGY.</b>					
Selenium Effects on Antennal Integrity and Chronic Copper Toxicity in <i>Daphnia pulex</i> (deGeer), W85-02970	1806 5C	<b>MIAMI UNIV., OXFORD, OH. SCHOOL OF INTERDISCIPLINARY STUDIES.</b>					
Acute Toxicity of Copper to Three Life Stages of <i>Chironomus tentans</i> as Affected by Water Hardness-Alkalinity, W85-04946	1809 5C	<b>MIAMI UNIV., OXFORD, OH. SCHOOL OF INTERDISCIPLINARY STUDIES.</b>					
Bioaccumulation and Toxicity of Copper as Affected by Interactions between Humic Acid and Water Hardness, W85-06732	1812 5B	<b>MIAMI UNIV., OXFORD, OH. SCHOOL OF INTERDISCIPLINARY STUDIES.</b>					
Geochemistry of the Onyx River (Wright Valley, Antarctica) and its Role in the Chemical Evolution of Lake Vanda, W85-04369	1808 2H	<b>MIAMI UNIV., OXFORD, OH. SCHOOL OF INTERDISCIPLINARY STUDIES.</b>					

## ORGANIZATIONAL INDEX

### MINISTRY OF FORESTRY, DJAKARTA (INDONESIA).

#### **MICHIGAN UNIV., ANN ARBOR, DEPT. OF ENVIRONMENTAL AND INDUSTRIAL HEALTH.**

Organochlorine Pesticide Residues in Paddy Fish in Malaysia and the Associated Health Risk to Farmers, W85-01438

1803 5B

Evaluation of Giardia Cyst Removal via Portable Water Filtration Devices, W85-02244

1805 5F

Periphytic Oxygen Production in Outdoor Experimental Channels, W85-02432

1805 2I

#### **MICHIGAN UNIV., ANN ARBOR, DIV. OF BIOLOGICAL SCIENCES.**

Acid Precipitation: Its Role in the Alkalization of a Lake in Michigan, W85-01592

1803 5C

Comparison of Heavy Metals in Aquatic Plants on Charity Island, Saginaw Bay, Lake Huron, U.S.A., with Plants along the Shoreline of Saginaw Bay, W85-06740

1812 5B

#### **MICHIGAN UNIV., ANN ARBOR, GREAT LAKES RESEARCH DIV.**

Hypothesis Relating Trophic Status and Subsurface Chlorophyll Maxima of Lakes, W85-00763

1802 2H

World's Great Lakes, W85-00917

1802 2H

Research on Great Lakes Algal Communities: Problems from the Past, Lessons for the Future, W85-00921

1802 2H

Influence of the St. Marys River Plume on Northern Lake Huron Phytoplankton Assemblages, W85-01756

1804 2H

Growth Responses of River and Lake Phytoplankton Populations in Lake Michigan Water, W85-02638

1805 2H

Benthic and Epibenthic (Microcrustaceans, Macrobenthos) Community Structure in the Vicinity of a Power Plant, Southeastern Lake Michigan, W85-02641

1805 5C

Intakes as Sampling Locations for Investigating Long-Term Trends in Zooplankton Populations, W85-03311

1807 7B

Distribution of Oligochaetes in Lake Michigan and Comments on Their Use as Indices of Pollution, W85-06866

1812 5A

Variations in *Melosira islandica* Valve Morphology in Lake Ontario Sediments Related to Eutrophication and Silica Depletion, W85-07072

1812 2H

#### **MICHIGAN UNIV., ANN ARBOR, SCHOOL OF NATURAL RESOURCES.**

Application of a Conventional Fishery Model for Assessment of Entrainment and Impingement Impact, W85-01118

1803 6G

Assessing Environmental Impact on Mass Balance, Carrying Capacity and Growth of Exploited Populations, W85-03044

1806 8I

#### **MICHIGAN UNIV., ANN ARBOR, SCHOOL OF PUBLIC HEALTH.**

Water Quality Indices - A Comparison of Experts' Opinions, W85-01425

1803 5A

#### **MICHIGAN UNIV.-FLINT, DEPT. OF CHEMISTRY.**

Cadmium Uptake by the Water Hyacinth: Effects of Solution Factors, W85-00682

1802 5C

#### **MIDDLESEX POLYTECHNIC, LONDON (ENGLAND).**

Influence of Surface Runoff on the Macro-Invertebrate Fauna of an Urban Stream, W85-00749

1802 5B

#### **MIDDLESEX POLYTECHNIC, LONDON (ENGLAND). URBAN STORMWATER POLLUTION RESEARCH GROUP.**

Hydrocarbon Accumulation in Freshwater Sediments of an Urban Catchment, W85-02078

1804 5B

#### **MILAN UNIV. (ITALY).**

Oligochaeta of the Middle Po River (Italy): Principal Component Analysis of the Benthic Data, W85-02774

1806 2H

#### **MILAN UNIV. (ITALY). SEZIONE DI ECOLOGIA.**

Immune Response in Rainbow Trout *Salmo gairdneri* after Long-Term Treatment with Low Levels of Cr, Cd and Cu, W85-02589

1805 5C

#### **MILJOESTYRELSEN, COPENHAGEN (DENMARK).**

Water Quality Planning in Denmark, W85-01424

1803 5G

#### **MILWAUKEE METROPOLITAN SEWERAGE DISTRICT, WI. TREATMENT SERVICES DIV.**

Computer Controlled Operation of an Activated Sludge Plant, W85-01652

1804 5D

#### **MINERALS MANAGEMENT SERVICE, CORPUS CHRISTI, TX.**

Suspended Sediment Responses in a Wind-Dominated Estuary of the Texas Gulf Coast, W85-02835

1806 2J

#### **MINISTERIE VAN VOLKSGEZONDHEID EN MILIEUHYGIENE, LEIDSCHENDAM (NETHERLANDS).**

Consumer Panels Monitor Taste of Water in Rotterdam, W85-00708

1802 5F

Transport of Cationic Solutes in Sorbing Porous Media, W85-01345

1803 2G

#### **MINISTERIUM FUER LAND-, FORST- UND NAHRUNGSGUTERWIRTSCHAFT, BERLIN (GERMAN D.R.).**

Rational Water Use in Agriculture, Forestry, and Food Production (Die rationelle Wasserverwendung in der Land-, Forst- und Nahrungsgutewirtschaft), W85-03468

1807 3F

#### **MINISTERIUM FUER UMWELTSCHUTZ AND WASSERWIRTSCHAFT, BERLIN (GERMAN D.R.).**

Further Tasks for the Intensification of Wastewater and Sludge Treatment (Die weiteren Aufgaben zur Intensivierung der Abwasser- und Schlammbehandlung), W85-03458

1807 5D

Mode of Operation of the New Water-Use Charges and Industrial Prices That Became Effective January 1, 1984 in the Water-Management Sector (Zur Wirkungsweise der ab 1. Januar 1984 geltenden neuen Wassernutzungsentgelte und Industriepreise der Wasserwirtschaft), W85-03465

1807 6C

#### **MINISTERIUM FUER UMWELTSCHUTZ UND WASSERWIRTSCHAFT, BERLIN (GERMAN D.R.).**

Rational Water Use - Gauge for Growth in Achievement and Effectiveness in Water Management (Die Rationale Wasserverwendung - Massstab für den Leistungs- und Effektivitätszuwachs in der Wasserwirtschaft), W85-04322

1808 3D

#### **MINISTRY OF AGRICULTURE AND FISHERIES, ASHBURTON (NEW ZEALAND).**

WINCHMORE IRRIGATION RESEARCH STATION.

Calibration of Neutron Moisture Meters on Stony Soils (Note), W85-06435

1812 7B

#### **MINISTRY OF AGRICULTURE AND FISHERIES, ROTORUA (NEW ZEALAND).**

FISHERIES RESEARCH DIV.

Limnological Changes in a Small Lake Stocked with Grass Carp, W85-03071

1806 4A

Some Effects of Eutrophication and the Removal of Aquatic Plants by Grass Carp (*Ctenopharyngodon idella*) on Rainbow Trout (*Salmo gairdneri*) in Lake Parkinson, New Zealand, W85-03072

1806 5C

#### **MINISTRY OF AGRICULTURE AND FISHERIES, WELLINGTON (NEW ZEALAND).**

FISHERIES RESEARCH DIV.

Invertebrate Recolonisation of Previously Dry Channels in the Rakaia River, W85-00804

1802 2H

#### **MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, BURNHAM ON CROUCH (ENGLAND).**

AQUATIC ENVIRONMENT PROTECTION DIV. II.

Sewage Sludge Dumping and Contamination of Liverpool Bay Sediments, W85-02291

1805 5B

#### **MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, BURNHAM ON CROUCH (ENGLAND).**

FISHERIES LAB.

Water Quality Studies Around the Sewage Sludge Dumping Site in Liverpool Bay, W85-02290

1805 5B

Effects of Mercury on the Prosobranch Mollusc *Crepidula fornicata*: Acute Lethal Toxicity and Effects on Growth and Reproduction of Chronic Exposure, W85-04867

1809 5C

#### **MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, CAMBRIDGE (ENGLAND).**

FIELD DRAINAGE EXPERIMENT UNIT.

Effect of Mole Submergence on the Life of Mole Channels, W85-06683

1812 8B

#### **MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, LOWESTOFT (ENGLAND).**

FISHERIES LAB.

Incorporation of Plutonium, Americium and Curium into the Irish Sea Seabed by Biological Activity, W85-04357

1808 5B

#### **MINISTRY OF AGRICULTURE, JEJLE (DENMARK).**

Land Use Planning in Denmark: The Use of Soil Physical Data in Irrigation Planning, W85-01234

1803 3F

#### **MINISTRY OF FORESTRY, DJAKARTA (INDONESIA).**

Watershed Rehabilitation Program Related to the Management of River and Reservoir Sedimentation in Indonesia, W85-04438

1809 4D

## ORGANIZATIONAL INDEX

### MINISTRY OF IRRIGATION, CAIRO (EGYPT). RESEARCH INST. OF HIGH DAM SIDE

#### MINISTRY OF IRRIGATION, CAIRO (EGYPT). RESEARCH INST. OF HIGH DAM SIDE EFFECTS.

Effects of Sedimentation on the Storage Capacity of the High Aswan Dam Reservoir, W85-02101 1804 4A

#### MINISTRY OF PLANNING, RIYADH (SAUDI ARABIA).

Aquifer Modeling with a Handheld Calculator - AQMODL, W85-00362 1801 4A

LGWRES - Life of Ground-Water Reserves, W85-04643 1809 4B

#### MINISTRY OF WATER RESOURCES AND ELECTRIC POWER, BEIJING (CHINA).

Development of the Wujiang River, W85-01545 1803 8A

Development of the Wujiang River, Part Two, W85-01551 1803 8A

#### MINISTRY OF WATER RESOURCES AND ELECTRIC POWER, BEIJING (CHINA).

#### DEPT. OF RURAL ELECTRIFICATION.

Small Hydro in China: Progress and Prospects, W85-04947 1809 6B

Exploiting Seasonal Energy from Small Hydro-power Stations, W85-04948 1809 6B

Role of Small Hydro in Rural Electrification, W85-04949 1809 6B

#### MINISTRY OF WORKS AND DEVELOPMENT, CHRISTCHURCH (NEW ZEALAND).

Groundwater Quality Survey of an Unsewered, Semi-Rural Area, W85-01633 1804 5B

Critical Depths for Passage in Braided Rivers, Canterbury, New Zealand, W85-01636 1804 2E

Flow Requirements for Recreation and Wildlife in New Zealand Rivers - A Review, W85-02558 1805 6D

#### MINISTRY OF WORKS AND DEVELOPMENT, CHRISTCHURCH (NEW ZEALAND). HYDROLOGY CENTRE.

Distribution and Severity of Tunnel Gully Erosion in New Zealand, W85-02412 1805 2J

Macroinvertebrates in a Sewage-Polluted Aquifer, W85-04720 1809 5C

#### MINISTRY OF WORKS AND DEVELOPMENT, CHRISTCHURCH (NEW ZEALAND). WATER AND SOIL DIV.

Spatial Variability of Low Flows across a Portion of the Central Southern Alps, New Zealand, W85-02556 1805 2E

#### MINISTRY OF WORKS AND DEVELOPMENT, CHRISTCHURCH (NEW ZEALAND). WATER AND SOIL SCIENCE CENTRE.

Response of Braided Rivers to Changing Discharge, W85-00184 1801 2E

Macroinvertebrates Associated with Various Aquatic Macrophytes in the Backwaters and Lakes of the Upper Clutha Valley, New Zealand, W85-01630 1803 2H

Analysis of Tidal River Records by a Harmonic Regressive Technique, W85-02457 1805 2L

#### MINISTRY OF WORKS AND DEVELOPMENT, HAMILTON (NEW ZEALAND). WATER AND SOIL SCIENCE CENTRE.

Optical Properties and Reflectance Spectra of 3 Shallow Lakes Obtained From a Spectrophotometric Study, W85-00808 1802 5A

Water Quality of the Waiohewa Stream, Rotorua, W85-01634 1804 5B

Nitrogen and Phosphorus in the Ngongotaha Stream, W85-01635 1804 5B

Accurate Modeling of River Pollutant Transport, W85-02277 1805 5B

Activities of Benthic Nitrifiers in Streams and Their Role in Oxygen Consumption, W85-04087 1808 2H

Trends in Lake Rotorua Water Quality, W85-04669 1809 2H

Factors Affecting Clarity of New Zealand Lakes, W85-04670 1809 2H

#### MINISTRY OF WORKS AND DEVELOPMENT, HAMILTON (NEW ZEALAND). WATER QUALITY CENTRE.

Chlorophyll-Nutrient Relationships in North Island Lakes (New Zealand), W85-05869 1811 2H

Prediction of Chlorophyll a Concentrations in Impoundments of Short Hydraulic Retention Time, W85-06177 1812 2H

Effect of Storms on Nitrification Rates in a Small Stream, W85-06730 1812 2K

Modifications to Electrolytic Respirometer Systems for Precise Determination of BOD Excretion Kinetics in Receiving Waters, W85-06734 1812 7B

Nitrate Loss and Transformation in 2 Vegetated Headwater Streams, W85-06795 1812 2H

Nitrogen and Phosphorus in Rotorua Urban Streams, W85-06796 1812 5B

Optical Characterisation of Natural Waters by PAR Measurement Under Changeable Light Conditions, W85-06797 1812 2H

#### MINISTRY OF WORKS AND DEVELOPMENT, NAPIER (NEW ZEALAND). WATER AND SOIL DIV.

Coarse Sediment Yields from the Upper Waipawa River Basin, Ruahine Range, W85-00178 1801 2J

Drought Effect on High-Altitude Forests, Ruahine Range, North Island, New Zealand, W85-01886 1804 2A

#### MINISTRY OF WORKS AND DEVELOPMENT, PALMERSTON NORTH (NEW ZEALAND).

Shear-Induced Secondary Currents in Channel Flows, W85-01562 1803 2E

#### MINISTRY OF WORKS AND DEVELOPMENT, PALMERSTON NORTH (NEW ZEALAND). WATER AND SOIL DIV.

Accuracy of Discharge Determined from a Rating Curve, W85-00694 1802 2E

#### MINISTRY OF WORKS AND DEVELOPMENT, WELLINGTON (NEW ZEALAND).

Transport of Non-Uniform Sediments (Transport de Sediments Non Uniformes), W85-01229 1803 2J

Sensitivity of Flow Measurement to Stage Errors for New Zealand Catchments (Note), W85-02559 1805 2E

Sedimentation in New Zealand Hydroelectric Schemes, W85-04445 1809 2J

#### MINNESOTA DEPT. OF HEALTH, MINNEAPOLIS.

Observations of Cancer Incidence Surveillance in Duluth, Minnesota, W85-02706 1806 5C

Identification of Asbestos and Glass Fibers in Municipal Sewage Sludges, W85-05008 1810 5A

#### MINNESOTA LEGISLATURE SCIENCE AND TECHNOLOGY RESEARCH OFFICE, ST. PAUL.

River Mixing - A State-of-the-Art Report, W85-04050 1808 5B

#### MINNESOTA POLLUTION CONTROL AGENCY, ROSEVILLE. DIV. OF WATER QUALITY.

Fish Survival at a Cooling Water Intake Designed to Minimize Mortality, W85-03638 1807 6G

#### MINNESOTA UNIV.-DULUTH. DEPT. OF BIOLOGY.

Assessment of Historical Change in Two Northern Minnesota Lakes, W85-04602 1809 5B

#### MINNESOTA UNIV.-DULUTH. DEPT. OF CHEMISTRY.

Implications of Treating Water Containing Polynuclear Aromatic Hydrocarbons with Chlorine; A Gas Chromatographic-Mass Spectrometric Study, W85-01207 1803 5B

Susceptibility of Environmentally Important Heterocycles to Chemical Disinfection: Reactions with Aqueous Chlorine, Chlorine Dioxide, and Chloramine, W85-02804 1806 5C

Facile Incorporation of Bromine into Aromatic Systems under Conditions of Water Chlorination, W85-03671 1807 5B

Bacterial Degradation of Selected Organics in Natural Waters of Northeastern Minnesota, W85-06863 1812 5B

#### MINNESOTA UNIV.-DULUTH. SCHOOL OF SOCIAL DEVELOPMENT.

Environmental Law and Policy versus the Hydrocycle, W85-00920 1802 6E

#### MINNESOTA UNIV., MINNEAPOLIS. DEPT. OF AGRICULTURAL AND APPLIED ECONOMICS.

Modular Interactive Simulation System for Eutrophication and Regional Development, W85-05494 1810 5C

## ORGANIZATIONAL INDEX

### MISSOURI UNIV.-ROLLA. DEPT. OF CIVIL ENGINEERING.

Cost Sharing for Federal Water Projects: Trends and Implications, W85-05495	1810 6C	Vegetation Patterns in the North Black River Peatland, Northern Minnesota, W85-05685	1810 2H	MISSISSIPPI STATE UNIV., MISSISSIPPI STATE, DEPT. OF BIOLOGICAL SCIENCES, Short-Term Interactions Between DDT and Endrin Accumulation and Elimination in Mosquitofish ( <i>Gambusia affinis</i> ), W85-07157	1812 5C
<b>MINNESOTA UNIV., MINNEAPOLIS. DEPT. OF BOTANY.</b>		<b>MINNESOTA UNIV., MINNEAPOLIS. ST. ANTHONY FALLS HYDRAULIC LAB.</b>		<b>MISSISSIPPI STATE UNIV., MISSISSIPPI STATE, SCHOOL OF FORESTRY.</b>	
Alkaline Phosphatase Activity and Cellular Phosphorus as an Index of the Phosphorus Status of Phytoplankton in Minnesota Lakes, W85-06418	1812 2H	How Wind can Affect a Sedimentation Basin, W85-03874	1808 2J	Subsidy and Tax Effects of Controlling Stream Sedimentation in South Carolina, W85-05966	1811 4D
<b>MINNESOTA UNIV., MINNEAPOLIS. DEPT. OF CHEMISTRY.</b>		<b>Stream Productivity Analysis with DORM - I; Development of Computational Model, W85-04304</b>	1808 2H	<b>MISSOURI AGRICULTURAL EXPERIMENT STATION, COLUMBIA.</b>	
Increased Chloroform Production from Model Components of Aquatic Humus and Mixtures of Chlorine Dioxide/Chlorine, W85-03664	1807 5F	Stream Productivity Analysis with DORM - II; Parameter Estimation and Sensitivity, W85-04305	1808 2H	Stream-Watershed Relations in the Missouri Ozark Plateau Province, W85-06620	1812 6G
Use of Volatile Chloroorganics as a Measure of the Rehabilitation of the St. Louis River and Bay, W85-06867	1812 5A	Stream Productivity Analysis with DORM - III; Productivity of Experimental Streams, W85-04306	1808 2H	<b>MISSOURI DEPT. OF CONSERVATION, COLUMBIA.</b>	
<b>MINNESOTA UNIV., MINNEAPOLIS. DEPT. OF CIVIL AND MINERAL ENGINEERING.</b>		Side Effects of 58 Years of Copper Sulfate Treatment of the Fairmont Lakes, Minnesota, W85-04996	1810 5G	Effects of Lead Tailings on Benthos and Water Quality of Three Ozark Streams, W85-03068	1806 5C
Three-Dimensional Streamlines in Dupuit-Forreheimer Models, W85-02148	1804 2F	<b>MINNESOTA UNIV., NAVARRE, GRAY FRESHWATER BIOLOGICAL INST.</b>		Accumulation of Lead in Fish from Missouri Streams Impacted by Lead Mining, W85-07151	1812 5C
<b>MINNESOTA UNIV., MINNEAPOLIS. DEPT. OF CIVIL AND MINING ENGINEERING.</b>		Methane Production in Minnesota Peatlands, W85-02135	1804 2L	<b>MISSOURI DEPT. OF NATURAL RESOURCES, JEFFERSON CITY. PUBLIC DRINKING WATER PROGRAM.</b>	
Impact of Land-Use on the Acid and Trace Element Composition of Precipitation in the North Central U.S., W85-00243	1801 2K	<b>MINNESOTA UNIV., ST. PAUL. COLL. OF VETERINARY MEDICINE.</b>		State Regulation of Chloramination, W85-05475	1810 5F
Cost Estimates for Hydropower at Existing Dams, W85-02442	1805 6C	Human Pathogenic Viruses at Sewage Sludge Disposal Sites in the Middle Atlantic Region, W85-02939	1806 5B	<b>MISSOURI UNIV.-COLUMBIA. DEPT. OF AGRICULTURAL ENGINEERING.</b>	
Characteristics and Modeling of Intake Vortices, W85-07100	1812 8B	<b>MINNESOTA UNIV., ST. PAUL. DEPT. OF AGRICULTURAL ENGINEERING.</b>		Prediction of Soil Erosion by Water and Wind for Various Fractions of Cover, W85-04732	1809 2J
<b>MINNESOTA UNIV., MINNEAPOLIS. DEPT. OF ECOLOGY AND BEHAVIORAL BIOLOGY.</b>		Controlling Erosion and Sedimentation in the Panama Canal Watershed, W85-04442	1809 4D	<b>MISSOURI UNIV.-COLUMBIA. DEPT. OF AGRONOMY.</b>	
Acid Rain: Ionic Correlations in the Eastern United States, 1980-1981, W85-01540	1803 5B	Method of Measuring Aggregate Stability Under Waterdrop Impact, W85-04733	1809 2J	Electronic Discriminator to Eliminate the Problem of Horizontal Raindrop Drift, W85-05193	1810 7B
Ecological Effects of Acid Deposition Upon Peatlands: A Neglected Field in 'Acid-Rain' Research, W85-02536	1805 5C	<b>MINNESOTA UNIV., ST. PAUL. DEPT. OF ENTOMOLOGY, FISHERIES, AND WILDLIFE.</b>		<b>MISSOURI UNIV.-COLUMBIA. DEPT. OF ATMOSPHERIC SCIENCE.</b>	
<b>MINNESOTA UNIV., MINNEAPOLIS. DEPT. OF GEOLOGY AND GEOPHYSICS.</b>		Annual Production by <i>Gammarus pseudolimnaeus</i> Among Substrate Types in Valley Creek, Minnesota, W85-02279	1805 2H	Sahel: The Changing Rainfall Regime and the 'Normals' Used for its Assessment, W85-07066	1812 2B
Effect of Anisotropy and Groundwater System Geometry on Seepage Through Lakebeds; 1. Analog and Dimensional Analysis, W85-04275	1808 2F	<b>MINNESOTA UNIV., ST. PAUL. DEPT. OF FOREST RESOURCES.</b>		<b>MISSOURI UNIV.-COLUMBIA. SCHOOL OF FORESTRY, FISHERIES AND WILDLIFE.</b>	
<b>MINNESOTA UNIV., MINNEAPOLIS. DEPT. OF LIMNOLOGICAL RESEARCH CENTER.</b>		Survey of State Water Quality Monitoring Programs, W85-00973	1802 7B	Factors Affecting the Relation Between Phosphorus and Chlorophyll a in Midwestern Reservoirs, W85-00889	1802 2H
Nitrogen and Phosphorus Dependence of Algal Biomass in Lakes: An Empirical and Theoretical Analysis, W85-01603	1803 2H	<b>MINNESOTA UNIV., ST. PAUL. DEPT. OF PLANT PATHOLOGY.</b>		Sources of Variability in Phosphorus and Chlorophyll and Their Effects on Use of Lake Survey Data, W85-01383	1803 2H
Lake Restoration by Biomanipulation: Round Lake, Minnesota, the First Two Years, W85-02284	1805 5G	Analysis of the Chemical Properties of Rain in Minnesota, W85-00246	1801 2K	Presence and Biomagnification of Organochlorine Chemical Residues in Oxbow Lakes of Northeastern Louisiana, W85-02191	1805 5B
Nutrient Reduction by Biomanipulation: An Unexpected Phenomenon and Its Possible Cause, W85-02645	1805 5G	<b>MINNESOTA UNIV., ST. PAUL. DEPT. OF SOIL SCIENCE.</b>		Flow-Through Microcuvette for Fluorometric Determination of Chlorophyll, W85-03146	1806 7B
Lake Development in the Boreal Peatlands of Southeastern Labrador, Canada, W85-03842	1808 2H	Evaluation of Simplified Methods for Determining Unsaturated Hydraulic Conductivity of Layered Soils, W85-02319	1805 2G	Metals in Riparian Wildlife of the Lead Mining District of Southeastern Missouri, W85-05110	1810 5C
Blue-green Dominance in Lakes: The Role and Management Significance of pH and CO <sub>2</sub> , W85-04909	1809 2H	<b>MINYA UNIV. (EGYPT). DEPT. OF CHEMICAL ENGINEERING.</b>		Factors Related to Algal Biomass in Missouri Ozark Streams, W85-05667	1810 2H
<b>MISSISSIPPI STATE UNIV., MISSISSIPPI STATE, DEPT. OF AGRICULTURAL AND BIOLOGICAL ENGINEERING.</b>		Colour Removal from Textile Effluents Using Hardwood Sawdust as an Absorbent, W85-06659	1812 5D	<b>MISSOURI UNIV.-ROLLA. DEPT. OF CIVIL ENGINEERING.</b>	
Performance of Grass Filters Under Laboratory and Field Conditions, W85-04729	1809 2J	<b>MISSISSIPPI STATE UNIV., MISSISSIPPI STATE, DEPT. OF BIOLOGICAL SCIENCES.</b>		Polyaluminum Chloride and Alum Coagulation of Clay-Fulvic Acid Suspensions, W85-06588	1812 5F

## ORGANIZATIONAL INDEX

### MISSOURI UNIV.-ROLLA. DEPT. OF GEOLOGICAL ENGINEERING.

**MISSOURI UNIV.-ROLLA. DEPT. OF GEOLOGICAL ENGINEERING.**  
Characterization of Drainage on Reclaimed Land Mined under Public Law 95-087,  
W85-03069 1806 2E

**MIYAZAKI UNIV. (JAPAN). FACULTY OF ENGINEERING.**  
Water Quality and Rock Weathering in the Upper Reaches of the Tenryu River in Connection with Landslide Disasters,  
W85-00187 1801 2K

**MODENA UNIV. (ITALY). IIST. DI ANATOMIA COMPARATA.**  
Effect of Copper Pollution on *Ictalurus nebulosus* (Effetti Dell'Inquinamento Da Rame Su *Ictalurus nebulosus*),  
W85-02498 1805 5C

**MODINE MFG. CO., RACINE, WI.**  
Copper Recovery from a Brass Bright Dipping Solution,  
W85-05427 1810 5D

**MONASH UNIV., CLAYTON (AUSTRALIA). DEPT. OF BOTANY.**  
Leaf Water Potentials, Fire and the Regeneration of Mallee Eucalypts in Semi-Arid, South-Eastern Australia,  
W85-03512 1807 2I

**MONASH UNIV., CLAYTON (AUSTRALIA). DEPT. OF CIVIL ENGINEERING.**  
Cut-Throat Flume Characteristics,  
W85-02453 1805 7B

Model of Flood Wave Speed-Discharge Characteristics of Rivers,  
W85-03994 1808 2E

**MONASH UNIV., CLAYTON (AUSTRALIA). DEPT. OF MATHEMATICS.**  
Stokes and Rayleigh Layers in Presence of Naturally Permeable Boundaries,  
W85-07099 1812 2E

**MONCTON UNIV. (NEW BRUNSWICK). DEPT. OF CHEMISTRY.**  
Simultaneous GLC Determination of Fenitrothion, Aminocarb and Their Corresponding Hydrolysis Products in Water,  
W85-06762 1812 5A

**MONENCO CONSULTANTS LTD., CALGARY (ALBERTA).**  
Distribution and Concentrations of Naturally Occurring Radionuclides in Sediments in a Uranium Mining Area of Northern Saskatchewan, Canada,  
W85-02083 1804 5B

**MONROE COUNTY DEPT. OF HEALTH, ROCHESTER, NY.**  
Chlorine Tolerant Bacteria in a Water Distribution System,  
W85-00734 1802 5B

**MONSANTO AGRICULTURAL PRODUCTS CO., ST. LOUIS, MO. RESEARCH DEPT.**  
Purge and Trap Chromatographic Method for the Determination of Acrylonitrile, Chlorobenzene, 1,2-Dichloroethane, and Ethylbenzene in Aqueous Samples,  
W85-02736 1806 5A

**MONTANA AGRICULTURAL EXPERIMENT STATION, CONRAD, WESTERN TRIANGLE AGRICULTURAL RESEARCH CENTER.**  
In Situ Estimation of Hydraulic Conductivity Using Simplified Methods,  
W85-03560 1807 2G

**MONTANA AGRICULTURAL EXPERIMENT STATION, HUNTLEY, MT. SOUTHERN AGRICULTURAL RESEARCH CENTER.**  
Saline Cooling Tower Water for Irrigation in Minnesota: I. Crop and Soil Effects,  
W85-06615 1812 3C

Saline Cooling Tower Water for Irrigation in Minnesota: II. Drainage Water Composition, Leaching Fraction, and Effect on Aquifer Quality,  
W85-06616 1812 3C

**MONTANA COLL. OF MINERAL SCIENCE AND TECHNOLOGY, BUTTE.**  
Interaction Between Groundwater and Surface Water Regimes and Mining-Induced Acid Mine Drainage in the Stockett-Sand Coulee Coal Field,  
W85-00583 1802 5B

**MONTANA DEPT. OF NATURAL RESOURCES AND CONSERVATION, HELENA.**  
1981 CCOPE PROBE Mesonet Calibration and Maintenance Measures,  
W85-04928 1809 7B

**MONTANA STATE UNIV., BOZEMAN.**  
Interrill Erosion as an Index of Mined Land Soil Erodibility,  
W85-03370 1807 2J

**MONTANA STATE UNIV., BOZEMAN. DEPT. OF BIOLOGY.**  
Effects of Urbanization on Physical Habitat for Trout in Streams,  
W85-00070 1801 6G

**MONTANA STATE UNIV., BOZEMAN. DEPT. OF CHEMISTRY.**  
Chemistry of Montana Snow Precipitation, 1982,  
W85-00072 1801 2K

**MONTANA STATE UNIV., BOZEMAN. DEPT. OF CIVIL ENGINEERING.**  
Assessment of Time Series as a Methodology to Quantify Irrigation Return Flows,  
W85-00071 1801 4A

**MONTANA STATE UNIV., BOZEMAN. DEPT. OF CIVIL ENGINEERING AND ENGINEERING MECHANICS.**  
Water Management Using Interactive Simulation,  
W85-01567 1803 6A

Interface Between Filtration and Backwashing,  
W85-07117 1812 5F

**MONTANA STATE UNIV., BOZEMAN. DEPT. OF MICROBIOLOGY.**  
New Medium for Improved Recovery of Coliform Bacteria from Drinking Water,  
W85-00103 1801 5A

Microelectrode Studies of Interstitial Water Chemistry and Photosynthetic Activity in a Hot Spring Microbial Mat,  
W85-02593 1805 2K

Evidence for the Role of Copper in the Injury Process of Coliform Bacteria in Drinking Water,  
W85-02594 1805 5F

Evaluation of m-T7 Agar as a Fecal Coliform Medium,  
W85-02598 1805 5A

Recent Advances in Coliform Methodology for Water Analysis,  
W85-02722 1806 5A

Interactions between Heterotrophic Plate Count Bacteria and Coliform Organisms,  
W85-07133 1812 5A

**MONTANA STATE UNIV., BOZEMAN. INST. FOR PROCESS ANALYSIS**  
Wastewater Treatment with Aerated Submerged Biological Filters,  
W85-01736 1804 5D

**MONTANA UNIV., MISSOULA. DEPT. OF BOTANY.**

Zonation of Mosses and Lichens Along the Salmon River in Idaho,  
W85-02330 1805 2E

**MONTANA UNIV., MISSOULA. DEPT. OF CHEMISTRY.**

Effect of Ash Fallout on Water Quality in Western Montana,  
W85-06325 1812 5C

**MONTANA UNIV., MISSOULA. DEPT. OF GEOLOGY.**

Results of Seepage Meter and Mini-Piezometer Study, Lake Mead, Nevada,  
W85-02688 1805 2H

**MONTANA UNIV., MISSOULA. DEPT. OF ZOOLOGY.**

Cost and Precision in a Stream Sampling Program,  
W85-00420 1801 6A

**MONTANA UNIV., MISSOULA. SCHOOL OF FORESTRY.**

Hydrologic Impacts of a Large-Scale Mountain Pine Beetle (*Dendroctonus ponderosae* Hopkins) Epidemic,  
W85-01375 1803 4C

Microclimate Control of Forest Productivity: Analysis by Computer Simulation of Annual Photosynthesis/Transpiration Balance in Different Environments,  
W85-06201 1812 2D

**MONTEDISON CHEMICAL CO., VENICE (ITALY).**

On-Line Measurement of Organic Carbon in Waste Water,  
W85-03745 1807 5D

**MONTGOMERY (ERROL L.) AND ASSOCIATES, INC., TUCSON, AZ.**

Ground Water Development for Mineral Industry in Arid Zones of the Andean Highlands, South America,  
W85-05045 1810 2F

**MONTGOMERY (JAMES M.), INC., PASADENA, CA.**

Tertiary Filtration: Practical Design Considerations,  
W85-02574 1805 5D

Converting from Chlorine to Chloramines: A Case Study,  
W85-05474 1810 5F

Program Management Keeps Anchorage Water Project on Schedule,  
W85-05486 1810 6A

**MONTGOMERY (JAMES M.), INC., WALNUT CREEK, CA.**

Impact of Priority Pollutants on Publicly Owned Treated Works Processes: A Literature Review,  
W85-05300 1810 5F

**MONTPELLIER-2 UNIV. (FRANCE).**

Statistical Representation of the Alternation of Dry and Rainy Spells Using Rainfall Series. Applications at Montpellier-Bel Air (1920-1971) and Paris-Montsouris (1949-1978) (Representation Statistique des Alternances Pluie-Non Pluie a Partir des Series Pluviographiques. Applications a Montpellier-Bell Air (1920-1971) et Paris-Montsouris (1949-1978)),  
W85-00394 1801 2B

**ORGANIZATIONAL INDEX**  
**MURDOCH UNIV. (WESTERN AUSTRALIA). SCHOOL OF ENVIRONMENTAL AND LIFE**

<b>MONTPELLIER-2 UNIV. (FRANCE). LAB. D'HYDROGEOLOGIE.</b>	<b>MORTON AND PARTNERS, REXDALE (ONTARIO).</b>	Routing of Dam Break Floods, W85-01550	1803 2E
Use of Dissolved Oxygen as Indicator of Hydrological Structures: Application to Karstic Aquifers (Utilisation de l'oxygene dissous comme indicateur de structures hydrogeologiques: exemple d'application aux aquifères karstiques), W85-00948	Methods of Forecasting and Mapping of Ground-Water Tables in the USSR, W85-00344	1801 4B	
Use of Krigging to Forecast Fracturation of Rocks (Prévision par Krigeage de la Fracturation des Roches), W85-03536	Regionalization of Continents According to the Character of the Annual Distribution of River Runoff, W85-04091	1808 2E	
Deformations and Structure of Reservoirs in the Mesozoic Carbonate Series of Central Portugal (Eastern Part of Fatima Plateau) (Déformations Cassantes et Structure de Magasin dans la Couverture Carbonatée Mésozoïque du Centre du Portugal (Est du Plateau de Fatima)), W85-03537	Use of Groundwater Isotopic Parameters for Classifying Structural and Hydrogeological Stages of the Platform Area of Daghestan, W85-04094	1808 2F	
Survey of a Coastal Karstic Aquifer by Analysis of the Effect of the Sea-tide: Example of the Kras of Slovenia, Yugoslavia, W85-03980	Use of Zeolite to Remove Toxic Substances from Nitrogen Metabolism of Fishes, W85-02281	1805 5F	
<b>MONTPELLIER-2 UNIV. (FRANCE). LAB. D'HYDROLOGIE MATHEMATIQUE.</b>	Combined Effect of Salinity and Triethyl Stanic Chloride on the Development of the Marine Forms of Three-Spine Stickleback, <i>Gasterosteus aculeatus</i> ( <i>Gasterosteidae</i> ), W85-05750	1810 5C	
Areal Reduction Factors on Short Time and Space Intervals, W85-01690	<b>MOSCOW STATE UNIV. (USSR). DEPT. OF MARINE PHYSICS.</b>	1809 2H	
Physical Model of the Aquatic Ecosystem, W85-04850			
Flood Protection in the Loire Valley Downstream Vienne Confluence (Protection des Vals de Loire en Aval de la confluence avec la Vienne), W85-02355	<b>MOSCOW STATE UNIV. (USSR). DEPT. OF PEDOLOGY.</b>	1802 6G	
To Prevent Aridization, Combat Salinity, W85-00646			
<b>MONTREAL ENGINEERING CO. LTD. (QUEBEC).</b>	<b>MOSCOW STATE UNIV. (USSR). FACULTY OF CHEMISTRY.</b>	1809 5F	
Underground Design at Andekaleka Hydroelectric Development, W85-06043	Some Characteristics of Chemical Crystallization in Water Purification Process, W85-04409		
1811 8A			
<b>MONTRÉAL ENGINEERING CO. LTD., ST. CATHARINES (ONTARIO).</b>	<b>MOSKOVSKAYA SELSKHOZYAISTVENNAYA AKADEMIYA (USSR).</b>	1811 6G	
Earth Foundation Treatment at Jebba Dam Site, W85-01871	Iron Migration in Sandy Podzolic Soils under Increasing Hydromorphism Produced by a Reservoir, W85-05909		
1804 8D			
<b>MONTRÉAL UNIV. (QUEBEC). DEPT. DE PHARMACOLOGIE.</b>	<b>MOSS LANDING MARINE LABS., CA.</b>	1802 2L	
Subchronic Effects of a Mixture of 'Persistent' Chemicals Found in the Great Lakes, W85-04479	Role of Internal Tides in the Nutrient Enrichment of Monterey Bay, California, W85-00650		
1809 5C			
<b>MONTRÉAL UNIV. (QUEBEC). DEPT. OF BIOLOGICAL SCIENCES.</b>	EDTA Chelation and Zinc Antagonism with Cadmium in Sediment: Effects on the Behavior and Mortality of Two Infaunal Amphipods, W85-04084	1808 5B	
Dynamics of Pollution-Indicator and Heterotrophic Bacteria in Sewage Treatment Lagoons, W85-02935			
1806 5D			
<b>MOOLIN (FRANK) AND ASSOCIATES, ANCHORAGE, AL.</b>	<b>MOSUL UNIV. (IRAQ). DEPT. OF BIOLOGY.</b>	1801 5A	
Underground Utilities in Barrow, Alaska, W85-04925	Indicator Bacteria in Freshwater and Marine Molluscs, W85-00416		
1809 6A			
Sewage Pump Station Design for Barrow, Alaska, W85-04926	Note on Antibiotic Resistance in the Bacterial Flora of Raw Sewage and Sewage-Polluted River Tigris in Mosul, Iraq, W85-07087	1812 5C	
1809 8C			
<b>MOORE, GARDNER AND ASSOCIATES, INC., BATON ROUGE, LA.</b>	<b>MOTOR-COLUMBUS INGENIEURUNTERNEHMUNG A.G., BADEN (SWITZERLAND).</b>	1803 4A	
Oxygen Uptake Rates Associated with Biological Treatment of Pentachlorophenol Wastewater, W85-01161	Monitoring of Dams (Die Laufende Überwachung von Talsperren), W85-01270		
1803 5D			
<b>MORAVIAN COLL., BETHLEHEM, PA. DEPT. OF BIOLOGY.</b>	Evolution of Buttress Dams, Part One, W85-01546	1803 8A	
In Situ Measures of Dissolved Organic Carbon Flux in a Rural Stream, W85-01493	Evolution of Buttress Dams, Part Two, W85-01549	1803 8A	
1803 2H			
<b>MUENSTER UNIV. (GERMANY, F.R.). INST. FUER GEOGRAPHIE.</b>			
Calculation of Evaporation for Inland Lakes Using Monthly Mean Values of Meteorological Parameters, Based on Measured Water Temperatures (Zur Verdunstungsberechnung für Binnenseen aus Monatsmittelwerten meteorologischer Parameter bei gemessener Wassertemperatur), W85-00899	1802 2D		
Adjusting Algorithm for Estimated Sub-regional Means of Areal Precipitation Using a Regional Mean of Known Size (Anleitungs-Vorfahren für geschätzte Teilgebiete-Niederschläge bei bekanntem Gesamtgebiete-Niederschlag), W85-00970	1802 7A		
<b>MULTIDISCIPLINARY ENERGY AND ENVIRONMENTAL SYSTEMS AND APPLICATIONS, SAN PEDRO, CA.</b>			
Characteristics of Leachates from Hazardous Waste Landfills, W85-02118	1804 5B		
<b>MUNICH UNIV. (GERMANY, F.R.). ZOOLOGISCHE INST.</b>			
Stratification of the Koenigssee (Bavaria, Germany) (Die Schichtungsverhältnisse des Koenigssees), W85-02528	1805 2H		
Ecology of Lake Nakuru; VI. Synopsis of Production and Energy Flow, W85-05704	1810 2H		
<b>MUNICIPAL ENVIRONMENTAL RESEARCH LAB., CINCINNATI, OH.</b>			
Handbook for Identification and Correction of Typical Design Deficiencies at Municipal Wastewater Treatment Facilities, W85-05135	1810 5D		
Onsite Wastewater Systems Policy and Regulations in the USA, W85-05198	1810 5D		
Alternative Sewer Systems in the United States, W85-05201	1810 5D		
Overview of Current Spill Cleanup Technology, W85-06975	1812 5G		
<b>MUNICIPAL ENVIRONMENTAL RESEARCH LAB., CINCINNATI, OH. DRINKING WATER RESEARCH DIV.</b>			
Reaction Products of Chlorine Dioxide, W85-01209	1803 5F		
Cost and Benefits of Drinking Water Treatment, W85-01649	1804 5F		
VOCs in Drinking Water: Cost of Removal, W85-03806	1808 5F		
<b>MUNTERS CORP., FORT MYERS, FL.</b>			
Reducing Water Consumption in Cooling Towers, W85-01460	1803 3E		
<b>MURDOCH UNIV. (WESTERN AUSTRALIA). SCHOOL OF ENVIRONMENTAL AND LIFE SCIENCE.</b>			
Iron Removal From TiO <sub>2</sub> -Plant Acidic Wastewater, W85-02278	1805 5D		
Aquatic Macrophyte Flora of Saline Wetlands in Western Australia in Relation to Salinity and Permanence, W85-05752	1810 2L		

## ORGANIZATIONAL INDEX

### MURDOCH UNIV. (WESTERN AUSTRALIA). SCHOOL OF ENVIRONMENTAL AND LIFE

Removal of Nitrogen from Wastewater by Soil Percolation with Alternate Flooding and Drying, W85-07107	1812 5E	NAPLES UNIV. (ITALY). DEPT. OF HYDRAULIC CONSTRUCTION. Two-Component Extreme Value Distribution for Flood Frequency Analysis, W85-02151	1804 2E	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GREENBELT, MD. HYDROLOGICAL SCIENCES BRANCH. Use of SEASAT Synthetic Aperture Radar and LANDSAT Multispectral Scanner Subsystem Data for Alaskan Glaciology Studies, W85-00521	1802 7B
MUSEU PARAENSE EMILIO GOELDI, PARA (BRAZIL). DEPT. DE ZOOLOGIA. Influence of Predation by Fish and Water Turbidity in a <i>Daphnia gessneri</i> Population in an Amazonian Floodplain Lake, Brazil, W85-02409	1805 2H	Effects of Viscosity and Surface Tension on Slot Weirs Flow, W85-07029	1812 8B	Effects of Corn Stalk Orientation and Water Content on Passive Microwave Sensing of Soil Moisture, W85-03302	1807 7B
MUSEUM NATIONAL D'HISTOIRE NATURELLE, PARIS (FRANCE). Tidal Power: Repercussions on the Aquatic Environment (Energie Maremotrice: Aspects lies a l'Environnement Aquatique), W85-05545	1810 6G	NAPLES UNIV. (ITALY). FACOLTA DI INGEGNERIA. Usefulness of Measuring the Corrosion Rates of Soils (Utilite des Mesures de Corrosivite des Solos), W85-01992	1804 8G	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GREENBELT, MD. LAB. FOR ATMOSPHERIC SCIENCES. Time-Dependent Ice Sheet Model: Preliminary Results, W85-00518	1802 2C
MUSEUM OF NORTHERN ARIZONA, INC., FLAGSTAFF. DEPT. OF BIOLOGY. Recreational Impacts on Colorado River Beaches in Glen Canyon, Arizona, W85-02298	1805 5C	NAPLES UNIV. (ITALY). IST. DI CHIMICA INDUSTRIALE E IMPIANTI CHEMICI. Ozonation of Aqueous Solutions of Nitrobenzene, W85-05829	1810 5D	Rain Estimation from Satellites: An Examination of the Griffith-Woodley Technique, W85-01041	1802 2B
MYSORE UNIV. (INDIA). DEPT. OF BOTANY. Trace Metal Concentrations of the Waters of a South Indian River, W85-01751	1804 5B	NARA WOMEN'S UNIV. (JAPAN). DEPT. OF BIOLOGY. Diatom Assemblages in Lacustrine Sediments of Lake Shibu-ike, L. Misumi-ike, L. Naga-ike, L. Kido-ike in Shiga Highland and a New Biotic Index Based on the Diatom Assemblage for the Acidity of Lake Water (in Japanese), W85-00535	1802 5C	Determining Soil Moisture from Geosynchronous Satellite Infrared Data: A Feasibility Study, W85-01152	1803 2G
Fluoride Concentration in the Water of the River Cauvery, Karnataka, India, W85-05448	1810 5B	NATAL UNIV., DURBAN (SOUTH AFRICA). DEPT. OF BOTANY. Drought Stress and the Demise of <i>Acacia albida</i> Along the Lower Kuiseb River, Central Namib Desert: Preliminary Findings, W85-00215	1801 2B	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MOFFETT FIELD, CA. AMES RESEARCH CENTER. Thickness of Ice on Perennially Frozen Lakes, W85-04883	1809 2C
NAGOYA UNIV. (JAPAN). WATER RESEARCH INST. Calcite Formation in Calcium Chloride Rich Water, W85-00185	1801 2K	NATAL UNIV., PIETERMARITZBURG (SOUTH AFRICA). Decomposition of <i>Cynodon dactylon</i> (L.) Pers. in the Seasonally Flooded Areas of the Pongolo River Floodplain: Pattern and Significance of Dry Matter and Nutrient Loss, W85-01479	1803 2H	NATIONAL ASSOCIATION OF CONSERVATION DISTRICTS, WASHINGTON, DC. Conservation District Role in Nonpoint Pollution Control, W85-05948	1811 5G
Estimation of Allochthonous and Autochthonous Organic Matter of the Fresh Sediments on the Basis of Ti Content, W85-00532	1802 2H	NATAL UNIV., PIETERMARITZBURG (SOUTH AFRICA). DEPT. OF BOTANY. Vertical Stratification in Sediments from a Young Oligotrophic South African Impoundment: Implications in Phosphorus Cycling, W85-02086	1804 2H	NATIONAL AUDUBON SOCIETY, NAPLES, FL. ECOSYSTEM RESEARCH UNIT. Hydrology-Plant Community Relationships in the Okefenokee Swamp, W85-01240	1803 2L
Depletion of Dissolved Oxygen in the Hypolimnion of Lake Kizaki from April to July in 1975, W85-00930	1802 2H	NATAL UNIV., PIETERMARITZBURG (SOUTH AFRICA). INST. OF NATURAL RESOURCES. Impact of the Drought in Natal/KwaZulu, W85-00214	1801 2B	NATIONAL AUDUBON SOCIETY, WASHINGTON, DC. Rivers: Our Vanishing Heritage, W85-00282	1801 4A
Studies on the Carbon Flux from Phyto- to Bacterioplankton Communities in Lake Constance, W85-04672	1809 2H	NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM, WASHINGTON, DC. Africa in Drought - A Change of Climate, W85-07076	1812 2B	NATIONAL BACTERIOLOGICAL LAB., STOCKHOLM (SWEDEN). Reduction of Pathogenic Microorganisms in Soil Infiltration Systems, W85-05215	1810 5D
NAIROBI UNIV. (KENYA). DEPT. OF METEOROLOGY. Temporal Fluctuations of Seasonal Rainfall Patterns in East Africa, W85-05096	1810 2B	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GREENBELT, MD. GODDARD SPACE FLIGHT CENTER. Numerical Model of Temperate Glacier Flow Applied to the Quiescent Phase of a Surge-Type Glacier, W85-00673	1802 2C	NATIONAL BOARD OF WATERS, HELSINKI (FINLAND). Automatic Monitoring of River Water Quality, W85-01407	1803 5A
NAJARIAN AND ASSOCIATES, EATONTOWN, NJ. Multicomponent Model of Phosphorus Dynamics in Reservoirs, W85-03144	1806 2H	Some Sensitivity Results for Corn Canopy Temperature and its Spatial Variation Induced by Soil Hydraulic Heterogeneity, W85-06193	1812 2I	Significance of Water Quality Parameters for Decision-Making in Water Pollution Control - a Case Study: Lake Paijanne in Finland, W85-01416	1803 5G
NAJARIAN, THATCHER AND ASSOCIATES, INC., CLOSTER, NJ. Lagrangian Transport Model for Estuaries, W85-02270	1805 2L	Effect of Vegetation on Soil Moisture Sensing Observed from Orbiting Microwave Radiometers, W85-06215	1812 2G	New Instrumentation in Automatic Water Quality Monitoring, W85-02007	1804 5G
NALCO CHEMICAL CO., OAK BROOK, IL. Total Systems Approach Reduces Mill Wastewater Treatment Costs, W85-05405	1810 5D	Nimbus-7 SMMR Polarization Responses to Snow Depth in the Mid-Western U.S., W85-06636	1812 2C	Influence of Forestry Draining on Runoff and Sediment Discharge in the Ylijoki Basin, North Finland, W85-02384	1805 4C
NAPIER COLL., EDINBURGH (SCOTLAND). DEPT. OF BIOLOGICAL SCIENCES. Effects of Pollution on the Benthos of the Firth of Forth, W85-00800	1802 5C	Study and Developmental Project for Lessening the Drawbacks of River Construction Works in Finland, W85-02385	1805 6G		
Pollution Monitoring Using the Nematode/Co-pod Ratio, A Practical Application, W85-05860	1811 5C				

## ORGANIZATIONAL INDEX

### NATIONAL HYDROLOGY RESEARCH INST., OTTAWA (ONTARIO).

Economic Effects of River Construction Works, W85-02392	1805 6B		NATIONAL FISHERIES CENTER-LEETOWN, KEARNEYSVILLE, WV.
Municipal Wastewater Treatment and Its Control in Finland, W85-02393	1805 5D		Toxic Materials, Fishing, and Environmental Variation: Simulated Effects on Striped Bass Population Trends, W85-06410
Method for Estimation of Sliling of Nets in Lake Waters, W85-03679	1807 5A		1812 5C
Toxic Impact of Effluents from Petrochemical Industry, W85-05812	1810 5C		
<b>NATIONAL BOARD OF WATERS, HELSINKI (FINLAND). HYDROLOGICAL OFFICE.</b>			<b>NATIONAL FISHERY RESEARCH LAB., LA CROSSE, WI.</b>
Bifurcations of Finnish Watercourses (Suomen Vesistöjen Bifurkaatio), W85-05826	1811 2E		Factors Affecting the Efficiency of Clinoptilite for Removing Ammonia from Water, W85-01583
<b>NATIONAL BOARD OF WATERS, HELSINKI (FINLAND). OFFICE FOR WATER SUPPLY AND SEWERAGE.</b>			1803 5D
Policy and Regulations in Scandinavia, W85-05197	1810 5D		Impact of an Oil Field Effluent on Microbial Activities in a Wyoming River, W85-01640
Disposal and Utilization Possibilities of Septage, W85-05205	1810 5D		1804 5C
<b>NATIONAL BOARD OF WATERS, HELSINKI (FINLAND). PLANNING OFFICE.</b>			Relationship of Young-of-the-Year Northern Pike to Aquatic Vegetation Types in Backwaters of the Upper Mississippi River, W85-03834
Quantity and Characteristics of Residential Wastewater, W85-05200	1810 5D		1808 8I
<b>NATIONAL BOARD OF WATERS, HELSINKI (FINLAND). TECHNICAL RESEARCH OFFICE.</b>			Aquatic Biota of Bank Stabilization Structure on the Missouri River, North Dakota, W85-06902
Research of On-Site Wastewater Treatment and Disposal in Finland, W85-05221	1810 5D		1812 6G
<b>NATIONAL BOARD OF WATERS, HELSINKI (FINLAND). WATER RESEARCH INST.</b>			
New Goals and Strategy Adopted in Finland for the Protection of Rivers, W85-01423	1803 6G		<b>NATIONAL GEOPHYSICAL RESEARCH INST., HYDERABAD (INDIA).</b>
Rapid Biological Method for the Monitoring of Eutrophication, W85-02526	1805 7B		Conjunctive Utilization of Surface Water and Groundwater to Arrest the Water-Level Decline in an Alluvial Aquifer, W85-06053
Influence of Sampling Frequency on the Estimates of Runoff Water Quality, W85-04930	1809 7B		1811 4B
<b>NATIONAL BOTANICAL RESEARCH INST., LUCKNOW (INDIA).</b>			Evolution of Regional Hydrogeologic Setup of a Hard Rock Aquifer Through R-C Analog Model, W85-06822
Contribution to the Wetland Flora of Sitapur District, Uttar Pradesh, W85-03830	1808 2H		1812 2F
<b>NATIONAL BUREAU OF STANDARDS, GAITHERSBURG, MD. CENTER FOR MATERIALS SCIENCE.</b>			<b>NATIONAL HYDROLOGY RESEARCH INST., CALGARY (ALBERTA).</b>
Accumulation and Fate of Tri-n-butyltin Cation in Estuarine Bacteria, W85-02185	1805 5B		Dirty-Water Events at Rocky Mountain Hot Springs and Their Correlation with Other Short-Lived Phenomena, W85-03194
<b>NATIONAL BUREAU OF STANDARDS (NEL), BOULDER, CO. CENTER FOR CHEMICAL ENGINEERING.</b>			1806 2F
Vertical Temperature Distribution in Lakes, W85-01651	1804 2H		<b>NATIONAL HYDROLOGY RESEARCH INST., CALGARY (ALBERTA). GROUND WATER DIV.</b>
<b>NATIONAL CANCER INST., BETHESDA, MD. ENVIRONMENTAL EPIDEMIOLOGY BRANCH.</b>			Program HVRLV1 - Interactive Determination of Horizontal Permeabilities within Uniform Soils from Field Tests Using Hvorslev's Formulas, W85-00312
Epidemiological Evidence of Carcinogenicity of Chlorinated Organics in Drinking Water, W85-01215	1803 5C		1801 2G
<b>NATIONAL CENTER FOR ATMOSPHERIC RESEARCH, BOULDER, CO.</b>			<b>NATIONAL HYDROLOGY RESEARCH INST., OTTAWA (ONTARIO).</b>
Flood Information Systems: Needs and Improvements in Eastern India, W85-00974	1802 6E		Characteristics of Snowfalls, Snow Metamorphism, and Snowpack Structure with Implications for Avalanching, Craigieburn Range, New Zealand, W85-00113
			1801 2C
			Energy Balance over Melting Snow, Craigieburn Range, New Zealand, W85-00181
			1801 2C
			Borehole Methodology for Hydrogeochemical Investigations in Fractured Rock, W85-02670
			1805 7B
			Hydrothermal Processes Beneath Arctic River Channels, W85-03165
			1806 2C
			Helium and Neon Isotope Geochemistry of Some Ground Waters from the Canadian Precambrian Shield, W85-03210
			1806 2F
			What are the Limits on Forest Evaporation, W85-03760
			1807 2D
			Wetting Front Advance and Freezing of Meltwater Within a Snow Cover; 2. A Simulation Model, W85-03992
			1808 2C

## ORGANIZATIONAL INDEX

### NATIONAL HYDROLOGY RESEARCH INST., OTTAWA (ONTARIO).

Analysis of Winter Heat Flow in an Ice-Covered Arctic Stream, W85-04042	1808 2C	Microbial Heterotrophic Activity Assessment in a Waste-water Treatment System, W85-04706	1809 5D	<b>NATIONAL MARINE FISHERIES SERVICE, OXFORD, MD. NORTHEAST FISHERIES CENTER.</b>
Neutralization of Acid Runoff by Groundwater Discharge to Streams in Canadian Precambrian Shield Watersheds, W85-04268	1808 2K	Diatoms of the Jukskei-Crocodile River System (Transvaal, Republic of South Africa): A Preliminary Check-List, W85-04814	1809 2H	Gill Fouling and Parasitism in the Rock Crab, <i>Cancer irroratus</i> Say, W85-05893
<b>NATIONAL INST. FOR ENVIRONMENTAL STUDIES, TSUKUBA (JAPAN).</b>		<b>NATIONAL INST. OF CHOLERA AND ENTERIC DISEASES, CALCUTTA (INDIA).</b>		1811 5C
Internal Seiche and Waves in Lake Chuzenji (Japan), W85-02605	1805 2H	Seasonal Distribution of <i>Vibrio parahaemolyticus</i> in Freshwater Environ and in Association with Freshwater Fishes in Calcutta, W85-04261	1808 5B	<b>NATIONAL MARINE FISHERIES SERVICE, SEATTLE, WA. NORTHWEST AND ALASKA FISHERIES CENTER.</b>
Some Considerations on Adequate Construction of Box Model and Its Application, W85-02613	1805 5B	<b>NATIONAL INST. OF OCEANOGRAPHY, PANAJI (INDIA).</b>		Chemical Pollutants in Sediments and Diseases of Bottom-Dwelling Fish in Puget Sound, Washington, W85-02347
Chemical Characteristics of Several Inland Waters in Afghanistan, W85-02628	1805 2K	Effect of Domestic Sewage on Sand Beach Macrofauna at Goa, India, W85-00423	1801 5C	1805 5C
Characterization of Sediment Reference Materials by X-Ray Photoelectron Spectroscopy, W85-06250	1812 2H	Behaviour of Boron, Calcium and Magnesium in a Polluted Estuary, W85-00668	1802 5B	Effect of Aroclor 1254 on the Biological Fate of 2,6-Dimethylnaphthalene in Coho Salmon ( <i>Oncorhynchus kisutch</i> ), W85-04351
Simultaneous Multielement Determination of Trace Metals in Lake Waters by ICP Emission Spectrometry with Preconcentration and Their Background Levels in Japan, W85-06738	1812 5A	Pollution Effects Monitoring With Foraminifera as Indices in the Thana Creek, Bombay Area, W85-01671	1804 5C	1808 5B
Effects of Insecticides on the Benthic Community in a Model Stream, W85-06815	1812 5C	Use of Electrophoresis and Immunoelectrophoresis in Taxonomic and Pollution Studies, W85-02343	1805 5C	Simultaneous Exposure of English Sole ( <i>Parophrys vetulus</i> ) to Sediment-Associated Xenobiotics: Part I - Uptake and Disposition of 14C-Polychlorinated Biphenyls and 3H-Benzo(a)Pyrene, W85-04870
<b>NATIONAL INST. FOR ENVIRONMENTAL STUDIES, TSUKUBA (JAPAN). ENVIRONMENTAL BIOLOGY DIV.</b>		<b>NATIONAL MARINE FISHERIES SERVICE, ANN ARBOR, MI. GREAT LAKES FISHERY LAB.</b>		1809 5C
Overwintering of <i>Microcystis aeruginosa</i> Kutz. in a Shallow Lake, W85-03245	1807 2H	Toxicity of Arsenate and DDT to the Cladoceran <i>Bosmina longirostris</i> , W85-02415	1805 5C	Exposure of Two Species of Deposit-Feeding Amphipods to Sediment-Associated (3H)-Benzo(a)pyrene: Uptake, Metabolism and Covalent Binding to Tissue Macromolecules, W85-06383
<b>NATIONAL INST. FOR ENVIRONMENTAL STUDIES, TSUKUBA (JAPAN). LAB. OF FRESHWATER ENVIRONMENT.</b>		Distribution of Eurasian Watermilfoil, <i>Myriophyllum spicatum</i> , in the St. Clair-Detroit River System in 1978, W85-02893	1806 2H	1812 5C
Growth Inhibition of Planktonic Algae Due to Surfactants Used in Washing Agents, W85-02427	1805 5C	Potential Impacts of Water Diversions on Fishery Resources in the Great Lakes, W85-02899	1806 6G	<b>NATIONAL MARINE POLLUTION PROGRAM OFFICE, ROCKVILLE, MD.</b>
<b>NATIONAL INST. FOR WATER RESEARCH, PRETORIA (SOUTH AFRICA).</b>		<b>NATIONAL MARINE FISHERIES SERVICE, BEAUFORT, NC. BEAUFORT LAB.</b>		Present Status of Research on the Zooplankton and Zoobenthos of the Great Lakes, W85-00922
Factors Controlling Primary Production in a Hypertrophic Lake (Hartbeespoort Dam, South Africa), W85-00384	1801 2H	Relative Contributions of Food and Water in the Accumulation of Zinc by Two Species of Marine Fish, W85-01366	1803 5B	1802 2H
Overturn in a Hypertrophic, Warm, Monomictic Impoundment (Hartbeespoort Dam, South Africa), W85-01481	1803 2H	Trace Metal-Binding Proteins in Marine Molluscs and Crustaceans, W85-04873	1809 5C	<b>NATIONAL MUSEUM OF VICTORIA, MELBOURNE (AUSTRALIA).</b>
Organization and Evaluation of Interlaboratory Comparison Studies among Southern African Water Analysis Laboratories, W85-02117	1804 5A	Cadmium-Binding Proteins in the Blue Crab, <i>Callinectes sapidus</i> : Laboratory - Field Comparison, W85-05884	1811 5C	Distribution of Benthic Invertebrates Along a Disturbed Section of the La Trobe River, Victoria: an Analysis Based on Numerical Classification, W85-01165
Limnological Studies on the Pretoria Salt Pan, a Hypersaline Maar Lake, W85-02478	1805 2H	<b>NATIONAL MARINE FISHERIES SERVICE, CHARLESTON, SC. SOUTHEAST FISHERIES CENTER.</b>		1803 2
Microcystis aeruginosa and Underwater Light Attenuation in a Hypertrophic Lake (Hartbeespoort Dam, South Africa), W85-03740	1807 2H	Simultaneous Accumulations of Naphthalene, a PCB Mixture, and Benzo(a)pyrene, by the Oyster, <i>Crassostrea virginica</i> , W85-04477	1809 5B	<b>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, ANN ARBOR, MI. GREAT LAKES ENVIRONMENTAL RESEARCH LAB.</b>
Simple Gravity Corer and Continuous-Flow Adaptor for Use in Sediment/Water Exchange Studies, W85-04300	1808 7B	<b>NATIONAL MARINE FISHERIES SERVICE, MILFORD, CT. MILFORD LAB.</b>		Satellite-Tracked Current Drifters in Lake Michigan, W85-01760
Research Related to Water Pollution Control in South Africa, W85-04456	1809 5D	Effects of Long-Term Mercury Exposure on Hematology of Striped Bass, <i>Morone saxatilis</i> , W85-00688	1802 5C	1804 7B
		Effects of Long-Term Exposure to Silver or Copper on Growth, Bioaccumulation and Histopathology in the Blue Mussel <i>Mytilus edulis</i> , W85-01355	1803 5C	Response of the Coastal Boundary Layer to Wind and Waves: Analysis of an Experiment in Lake Erie, W85-02960
				1806 2H
				Resolving Thiessen Polygons, W85-06054
				1811 2A
				<b>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, BOULDER, CO. AERONOMY LAB.</b>
				Relationship of Precipitation to Vertical Motion Observed Directly by a VHF Wind Profiler During a Spring Upslope Storm Near Denver, Colorado, W85-07075
				1812 2B
				<b>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, BOULDER, CO. ENVIRONMENTAL RESEARCH LABS.</b>
				Relative Effects of U.S. Population Shifts (1930-80) on Potential Heating, Cooling and Water Demand, W85-01153
				1803 2B

## ORGANIZATIONAL INDEX

**NATIONAL TECHNICAL UNIV., ATHENS (GREECE). DEPT. OF CIVIL ENGINEERING.**

Sediment Trap Studies in Lake Michigan: Resuspension and Chemical Fluxes in the Southern Basin, W85-02892	1806 2J	NATIONAL PROJECTS CONSTRUCTION CORP., NEW DELHI (INDIA). Case Studies from India on the Environmental Impact of Dams, W85-03326	1807 6G	NATIONAL SPACE TECHNOLOGY LABS., NSTL STATION, MS. Hybrid Wastewater Treatment System Using Anaerobic Microorganisms and Reed (Phragmites communis), W85-01604	1803 5D
Precipitation Trends and Water Consumption Related to Population in the Southwestern United States, 1930-83, W85-07067	1812 2B	NATIONAL RESEARCH CENTER FOR DISASTER PREVENTION, NAGOKA (JAPAN). INST. OF SNOW AND ICE STUDIES. Observation of Ice Pellets, W85-04025	1808 2C	NATIONAL SUN YAT-SEN UNIV., KAOHSIUNG (TAIWAN). INST. OF MARINE BIOLOGY. Foreign Elements in a Clam Shell: A Clue to the History of Marine Pollution Events, W85-02541	1805 5A
<b>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, BOULDER, CO. OFFICE OF WEATHER RESEARCH AND MODIFICATION.</b> Chemical Analysis of Cloud Water Collected over Hawaii, W85-00515	1802 2K	NATIONAL RESEARCH CENTRE, CAIRO (EGYPT). Field Trial of Reverse Osmosis in the El Khanka Desert, Egypt, W85-03974	1808 3A	NATIONAL SWEDISH ENVIRONMENT PROTECTION BOARD, NYKOEPING. <b>BRACKISH WATER TOXICOLOGY LAB.</b> Fish Deformities and Pollution in Some Swedish Waters, W85-05466	1810 5C
<b>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, BOULDER, CO. WEATHER MODIFICATION PROGRAM OFFICE.</b> Rainfall Measurement Accuracy in FACE: A Comparison of Gage and Radar Rainfalls, W85-00915	1802 7B	Changes in the Quality of Nile Water in Egypt During the Twenty-Five Years, 1954-1979, W85-05162	1810 6G	NATIONAL SWEDISH ENVIRONMENT PROTECTION BOARD, SOLNA. Fractionation of Trace Metals in Acidified Fresh Waters by in situ Dialysis, W85-04535	1809 5B
<b>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, MIAMI, FL. ATLANTIC OCEANOGRAPHIC AND METEOROLOGICAL LABS.</b> Sediment Cap Stability Study, New York Dredged Material Dumpsite, W85-00053	1801 5E	Field Trial of Reverse Osmosis in the El Khanka Desert, Egypt, W85-07093	1812 3A	Practical Experiences on Package Treatment Plants, W85-05210	1810 5D
<b>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, PRINCETON, NJ. GEOPHYSICAL FLUID DYNAMICS LAB.</b> Effect of Soil Moisture on the Short-Term Climate and Hydrology Change - A Numerical Experiment, W85-01335	1803 8G	NATIONAL RESEARCH CENTRE, CAIRO (EGYPT). WATER POLLUTION CONTROL LAB. Persistence and Fate of Methyl Parathion in Sea Water, W85-01090	1802 5B	NATIONAL SWEDISH ENVIRONMENT PROTECTION BOARD, SOLNA. RESEARCH DEPT. Short Term and Long Term Effects on Groundwater by Wastewater Infiltration in Subsoil System, W85-05216	1810 5D
<b>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, SEATTLE, WA. PACIFIC MARINE ENVIRONMENTAL LAB.</b> Patterns of Suspended Particle Distribution and Transport in a Large Fjordlike Estuary, W85-02294	1805 2L	Organochlorine Residues in Fish from the River Nile, Egypt, W85-01458	1803 5B	Ongoing and Recent Research on On-Site Treatment and Disposal Methods in Sweden, W85-05220	1810 5D
Observations of Currents and Water Properties in Commencement Bay, W85-06959	1812 2L	Organochlorine Insecticides and PCBs in River Nile Water, Egypt, W85-04352	1808 5B	NATIONAL SWEDISH ENVIRONMENT PROTECTION BOARD, SOLNA. WATER POLLUTION RESEARCH LAB. Mercury in Swedish Lakes - Its Regional Distribution and Causes, W85-00087	1801 5B
<b>NATIONAL PARK SERVICE, OMAHA, NE. MIDWEST REGION.</b> Effects of Deicing Salts on Water Chemistry and Vegetation in Pinhook Bog, Indiana Dunes National Lakeshore, W85-05123	1810 5C	NATIONAL RESEARCH COUNCIL OF CANADA, HALIFAX (NOVA SCOTIA). <b>ATLANTIC RESEARCH LAB.</b> Application of Ion-Exchange Chromatography with an Ion-Selective Electrode Detector to Iodine Determination in Natural Waters, W85-04654	1809 5A	NATIONAL SWEDISH ENVIRONMENT PROTECTION BOARD, STOCKHOLM. <b>SPECIAL ANALYTICAL LAB.</b> Use of the Bivalve <i>Mytilus edulis</i> as a Test Organism for Bioconcentration Studies. 1. Designing a Continuous-Flow System and its Application to Some Organochlorine Compounds, W85-06743	1812 5C
<b>NATIONAL PARK SERVICE, PORTER, IN. SCIENCE DIV.</b> Effects of NaCl Deicing Salts on Sphagnum recurvus P. Beauv., W85-03218	1807 5C	NATIONAL RESEARCH COUNCIL OF CANADA, OTTAWA (ONTARIO). DIV. OF BIOLOGICAL SCIENCES. Effect of Settling on Performance of the Upflow Anaerobic Sludge Bed Reactors, W85-04303	1808 5D	NATIONAL SWEDISH ENVIRONMENT PROTECTION BOARD, UPPSALA (SWEDEN). <b>WATER QUALITY LAB.</b> Incidence of Deformed Chironomid Larvae (Diptera: Chironomidae) in Swedish Lakes, W85-01021	1802 5C
<b>NATIONAL PARK SERVICE, WASHINGTON, DC. ECOLOGICAL SERVICES LAB.</b> Toxicity of Chlorine to a Common Vascular Aquatic Plant, W85-01731	1804 5C	Effect of Height on the Performance of Anaerobic Downflow Stationary Fixed-Film Reactors Treating Bean Blanching Waste, W85-05232	1810 5D	Bottom Dynamics in Lakes, W85-02054	1804 2J
<b>NATIONAL PLANNING COMMISSION, KATHMANDU (NEPAL).</b> River Sedimentation and Remedial Measures in Nepal, W85-06543	1812 4D	NATIONAL RESEARCH COUNCIL OF CANADA, OTTAWA (ONTARIO). DIV. OF BUILDING RESEARCH. Physico-Mechanical Characteristics of Hydrating Tetracalcium Aluminoferrite System at Low Water:Solid Ratios, W85-00696	1802 8F	Lake Trehorningen Restoration Project. Changes in Water Quality after Sediment Dredging, W85-02097	1804 5G
<b>NATIONAL POWER CORP., MANILA (PHILIPPINES).</b> Design and Construction of the Agus IV Power Cavern. Part One: Geotechnical Investigations, W85-01544	1803 8E	NATIONAL RESEARCH INST. OF AGRICULTURAL ENGINEERING, YATABE (JAPAN). DEPT. OF HYDROLOGICAL ENGINEERING. New Numerical Model and Technique for Waterhammer, W85-00727	1802 8B	Aquatic Contamination and Ecological Risk. An Attempt to a Conceptual Framework, W85-02428	1805 5C
Use and Re-Use of Itaipu's Diversion Gates, Part Two, W85-01553	1803 8C	NATIONAL TECHNICAL UNIV., ATHENS (GREECE). DEPT. OF CIVIL ENGINEERING. Steady Flow Calculations for Cutoff Wall Depth Variation, W85-02258	1805 8D	NATIONAL TECHNICAL UNIV., ATHENS (GREECE). DEPT. OF CIVIL ENGINEERING. Boussinesq's Equation Solutions for Semi-Infinite Aquifer, W85-02269	1805 2A

## ORGANIZATIONAL INDEX

### NATIONAL TECHNICAL UNIV., ATHENS (GREECE). DEPT. OF CIVIL ENGINEERING.

Real-Time Flood Forecasting Technique, W85-03708	1807 4A	Determination of Alkalinity and Acidity of Water by Conductometric Acid-Base Titration, W85-02734	1806 5A	<b>NATIONAL WATER RESEARCH INST., BURLINGTON (ONTARIO).</b>
<b>NATIONAL UNIV. OF MALAYSIA, BANGI. FACULTY OF ECONOMICS.</b>		Arylsulphatase Activity in Polluted Lake Sediments, W85-02745	1806 5C	<b>ENVIRONMENTAL CONTAMINANTS DIV.</b>
Small Hydro Progress in Malaysia, W85-06129	1811 6B	Role of Inland Water Sediments as Sinks for Anthropogenic Sulfur, W85-02864	1806 5B	Fate of Pentachlorophenol in the Bay of Quinte, Lake Ontario, W85-00925
<b>NATIONAL UNIV. OF SINGAPORE. DEPT. OF BOTANY.</b>		Chemistry, Mineralogy, and Morphology of Lake Erie Suspended Matter, W85-02890	1806 2H	1802 5B
Comparison of Fungi from Polluted Water, W85-01449	1803 5C	Bacterial Activity in Sediments of Lakes Receiving Acid Precipitation, W85-03047	1806 2H	Uptake of Chlorinated Organics from Anthropogenically Contaminated Sediments by Oligochaete Worms, W85-01490
<b>NATIONAL UNIV. OF SINGAPORE. DEPT. OF CIVIL ENGINEERING.</b>		Sedimentology and Geochemistry of Modern Sediments in the Kingston Basin of Lake Ontario, W85-04714	1809 2H	1803 5B
Channel Design and Flow Operation Without Choke, W85-03822	1808 8B	Analytical Chemistry, W85-05593	1810 5A	Chlorinated Contaminants in the Niagara River, 1981-1983, W85-03033
Ambient Hydrogen Sulphide Levels at a Wastewater Treatment Plant, W85-05765	1810 5B	Distribution and Isotopic Composition of Sulfur in Lake Sediments of Northern Ontario, W85-05763	1810 5B	1806 5B
Two-Phase Anaerobic Treatment Kinetics of Palm Oil Wastes, W85-07124	1812 5D	Determination of Chlorinated Benzenes in Bottom Sediment Samples by WCOT Column Gas Chromatography, W85-06256	1812 5A	Tracking River Plumes with Volatile Halocarbon Contaminants: The Niagara River-Lake Ontario Example, W85-04715
<b>NATIONAL UNIV. OF SINGAPORE. DEPT. OF ZOOLOGY.</b>		Use of Historical Data for Estimating the Number of Samples Required for Monitoring Drinking Water, W85-06703	1812 5F	1809 5B
Tolerance to and Uptake of Lead in the Green Mussel, <i>Perna viridis</i> (L.), W85-04708	1809 5C	<b>NATIONAL WATER RESEARCH INST., BURLINGTON (ONTARIO). ANALYTICAL METHODS DIV.</b>		Effect of Bacterial Cultures on Microbial Toxicity Assessment, W85-05009
<b>NATIONAL VETERINARY INST., OSLO (NORWAY).</b>		Microbiological Examination of Lake Erie and Lake Ontario Sediments, W85-00403	1801 2H	1810 5A
Distribution and Elimination of Hexachlorobenzene, Octachlorostyrene and Decachlorobiphenyl in Rainbow Trout, <i>Salmo gairdneri</i> , W85-06381	1812 5C	Sensitivity of <i>Legionella pneumophila</i> to Sunlight in Fresh and Marine Waters, W85-03431	1807 5B	Recent Sedimentation Rates and 210Pb Fluxes in Georgian Bay and Lake Huron, W85-06547
<b>NATIONAL WATER COUNCIL, LONDON (ENGLAND).</b>		<b>NATIONAL WATER RESEARCH INST., BURLINGTON (ONTARIO). AQUATIC ECOLOGY DIV.</b>		1812 2J
Training Programmes in Federal Systems of Government, W85-01989	1804 6F	Coprecipitation of Phosphate with Calcite in a Naturally Eutrophic Lake, W85-01587	1803 2H	<b>NATIONAL WATER RESEARCH INST., BURLINGTON (ONTARIO). HYDRAULICS RESEARCH DIV.</b>
<b>NATIONAL WATER RESEARCH INST., BURLINGTON (ONTARIO).</b>		Ultrastructure of Lacustrine Sedimenting Materials in the Colloidal Size Range, W85-03232	1807 2J	Suspended Sediment Distribution in Wave Field, W85-01501
Fate of Oil Dispersants in Aquatic Environment, W85-00742	1802 5B	Sedimentation and Sediment Resuspension in Lake Ontario, W85-06861	1812 2J	1803 2J
Chemical and Radiotracer Measurements of Phosphorus Uptake by Lake Plankton, W85-00887	1802 2H	<b>NATIONAL WATER RESEARCH INST., BURLINGTON (ONTARIO). MICROBIOLOGY LABS.</b>		
Atmospheric Input of Heavy Metals Chronicled in Lake Sediments of the Algonquin Provincial Park, Ontario, Canada, W85-01104	1802 5B	Influence of Acid Precipitation on Bacterial Populations in Lakes, W85-00404	1801 5C	
Free Surface Oscillations of Lake Ontario, W85-01601	1803 2H	<b>NATIONAL WATER RESEARCH INST., WINNIPEG (MANITOBA).</b>		
Dissolved Oxygen Concentrations in Lake Erie (U.S.A. - Canada); 2. A Statistical Model for Dissolved Oxygen in the Central Basin of Lake Erie, W85-01610	1803 2H	Physical and Geochemical Characteristics of Suspended Solids, Wilton Creek, Ontario, W85-02056	1804 2H	
Temporal Distribution of Design Storm Rainfall, W85-01688	1804 2B	<b>NATIONAL WATER SUPPLY AND DRAINAGE BOARD, COLOMBO (SRI LANKA).</b>		
Modelling Criteria for Bubble Plumes - A Theoretical Approach, W85-01715	1804 8B	Matara Water Supply Project in Sri Lanka, W85-02013	1804 5F	
Oxygen Depletion in Central and Eastern Lake Erie: Relationship with Bacteria, Chlorophyll, POC, and Morphometry, W85-01752	1804 2H	<b>NATIONAL WEATHER SERVICE, PORTLAND, OR. NORTHWEST RIVER FORECAST CENTER.</b>		
Effects of Low-pH Stress on the Morphology and Activity of Bacteria from Lakes Receiving Acid Precipitation, W85-02482	1805 5C	Standard Hydrologic Exchange Format (SHEF), W85-03060	1806 7C	
<b>NATIONAL WATER RESEARCH INST., BURLINGTON (ONTARIO). BASIN INVESTIGATION AND MODELLING SECTION.</b>		<b>NATIONAL WEATHER SERVICE, SILVER SPRING, MD.</b>		
Entrainment by Bottom Current in Lake Erie, W85-01600	1803 2H	Water Available for Runoff for 1 to 15 Days Duration and Return Periods of 2 to 100 Years for Selected Agricultural Regions in the Northwest United States, W85-05363	1810 2B	

## ORGANIZATIONAL INDEX

NEVADA UNIV., LAS VEGAS. DEPT. OF BIOLOGICAL SCIENCES.

<b>NATIONAL WEATHER SERVICE, SILVER SPRING, MD. HYDROLOGIC RESEARCH LAB.</b>	<b>NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER, SAN DIEGO, CA.</b>	<b>NEBRAKA UNIV., LINCOLN. DEPT. OF MATHEMATICS.</b>
Hydrologically Useful Station Precipitation Model; 1. Formulation, W85-03557	Federalism and the Wild and Scenic Rivers Act: Now You See It, Now You Don't, W85-04375	Multi-Objective Optimization Model for Aquifer Management under Transient and Steady-State Conditions, W85-06562
1807 2B	1808 6E	1812 4B
Hydrologically Useful Station Precipitation Model; 2. Case Studies, W85-03558	NEANDESTRE. 23, 1000 BERLIN 49.	NEBRAKA UNIV.-LINCOLN. DEPT. OF PLANT PATHOLOGY.
1807 2B	Determination of Spreading of Nutritive Salts in Quasi-Stagnant Waters by Using Lithium (Chloride) as Tracer and Continuous Measurement of Water-Quality Parameters (Die Bestimmung von Ausbreitungsvorgangen von Nahrsalzen in quasi stehenden Gewässern unter Verwendung des Tracers Lithium (Chlorid) und die kontinuierliche Messung von Wassergüteparametern), W85-04810	Survey for Viruses from Fresh Water That Infect a Eucaryotic Chlorella-Like Green Alga, W85-07138
Extended Streamflow Forecasting Using NWSRFS, W85-06029	1809 5A	1812 2H
1811 2E		
<b>NATIONAL WEATHER SERVICE, SILVER SPRING, MD. OFFICE OF HYDROLOGY.</b>	<b>NEBRASKA UNIV. AT OMAHA. DEPT. OF CIVIL ENGINEERING.</b>	<b>NEBRAKA UNIV.-LINCOLN. INST. OF AGRICULTURE AND NATURAL RESOURCES.</b>
Probable Maximum Precipitation and Snowmelt Criteria for Southeast Alaska, W85-00056	Water-Energy Linkages in Nebraska, W85-02983	Uranium Geochemistry in Groundwater from Tertiary Sediments, W85-04371
1801 2C	1806 6D	1808 2K
Quantitative Precipitation Forecast Techniques for Use in Hydrologic Forecasting, W85-03864	<b>NEBRAKA UNIV.-LINCOLN.</b>	Crop Moisture Stress Analysis Using Computer-Controlled Environmental Chambers and Simulated Weather Sequences, W85-06097
1808 2A	Soil Physical Characteristics of Reduced Tillage in a Wheat-Fallow System, W85-06078	1811 2I
Probable Maximum Precipitation Estimates - United States Between the Continental Divide and the 103rd Meridian, W85-04226	Water Quality from Erosion Control Structures in Nebraska, W85-06716	Planning for Drought: The Role of State Government, W85-06236
1808 2B	1812 2J	1812 6A
<b>NATIONAL WEATHER SERVICE, SOUTH MINNEAPOLIS, MN. AIRBORNE SNOW SURVEY PROGRAM.</b>	<b>NEBRAKA UNIV.-LINCOLN. CENTER FOR AGRICULTURAL METEOROLOGY AND CLIMATOLOGY.</b>	<b>NEBRAKA UNIV. PANHANDLE STATE AT SCOTTSBLUFF.</b>
Error Analysis of Airborne Gamma Radiation Soil Moisture Measurements, W85-01075	Determining Drought Frequency and Intensity on the Basis of Plant Response: Wild Hay in the Sand Hills of Nebraska, U.S.A., W85-01064	Quantitative Approach to the Pruitt and Doenbos Version of the Penman Equation, W85-05936
1802 2G	1802 2B	1811 2D
<b>NATIONAL WEATHER SERVICE, WASHINGTON, DC. CLIMATE ANALYSIS CENTER.</b>	<b>NEBRAKA UNIV., LINCOLN. CONSERVATION AND SURVEY DIV.</b>	<b>NEC ENVIRONMENTAL ENGINEERING LTD., TOKYO (JAPAN).</b>
Effect of Irrigation on Warm Season Precipitation in the Southern Great Plains, W85-03844	Ground-Water Contamination and Well Construction in Southeast Nebraska, W85-04637	Material Balance Analysis for Fluoride Ions in Experimental Waste Disposal Plant, W85-01732
1808 6G	1809 5B	1804 5D
<b>NATIVE PLANTS, INC., SALT LAKE CITY, UT.</b>	<b>NEBRAKA UNIV.-LINCOLN. DEPT. OF AGRICULTURAL ECONOMICS.</b>	<b>NEDERLANDS INST. VOOR ONDERZOEK DER ZEE, TEXEL.</b>
Effects of Increasing Snowpack on a Subalpine Meadow in the Uinta Mountains, Utah, U.S.A., W85-00236	Evaluation of Legal and Institutional Arrangements Associated with Ground Water Allocation in the Missouri River Basin States, W85-06300	River Elbe: Processes Affecting the Behaviour of Metals and Organochlorines During Estuarine Mixing, W85-01836
1801 2C	1812 6E	1804 5B
<b>NATIONAL RESOURCES DEFENSE COUNCIL, INC., WASHINGTON, DC.</b>	<b>NEBRAKA UNIV., LINCOLN. DEPT. OF AGRICULTURAL ENGINEERING.</b>	River Weser Processes Affecting the Behaviour of Metals and Organochlorines during Estuarine Mixing, W85-01837
Regulating Hazardous and Mixed Waste at Department of Energy Nuclear Weapons Facilities; Reversing Decades of Environmental Neglect, W85-06528	Model and Production Function for Irrigation Management, W85-01508	1804 2L
1812 6E	1803 3F	
<b>NAUCHNO-ISSLEDOVATEL'SKII INST. KOMMUNALNOGO VODOSNABZHENIYA I OCHISKI VODI, MOSCOW (USSR).</b>	Water Conservation through Limited Irrigation of Corn and Grain Sorghum in the Great Plains, W85-01952	One-Dimensional Mixing and Flushing Model of the Ems-Dollard Estuary: Calculation of Time Scales at Different River Discharges, W85-01838
Procedures for Intensive Biological Treatment of Municipal Wastewater in the USSR (Verfahren zur intensiven biologischen Reinigung Stadtschwer Abwasser in der UdSSR), W85-03461	1804 3F	1804 2L
1807 5D		
<b>NAVAL FACILITIES ENGINEERING COMMAND, CHARLESTON, SC. SOUTHERN DIV.</b>	Tillage, Residue and Erosion on Moderately Sloping Soils, W85-03402	Dispersal of Zaire River Suspended Matter in the Estuary and the Angola Basin, W85-03674
Irrigation of Public Use Areas by Land Application of Combined Industrial and Domestic Waste Effluent, W85-01740	1807 2J	1807 2L
1804 5D		
<b>NAVAL OCEAN SYSTEMS CENTER, SAN DIEGO, CA.</b>	Tillage Influences on Erosion During Furrow Irrigation, W85-04749	Particulate and Dissolved Organic Carbon and Chlorophyll A in the Zaire River, Estuary and Plume, W85-03676
Serum Biochemical and Cellular Responses to Experimental Cupric Ion Challenge in Mussels, W85-05888	1809 4C	1807 2L
1811 5C		
<b>NAVAL RESEARCH LAB., WASHINGTON, DC.</b>	Tillage Practice Effects on Water Conservation and the Efficiency and Management of Surface Irrigation Systems, W85-06315	NEUBAUABTEILUNG FUER DEN UNTEREN MAIN, ASCHAFFENBURG (AUSTRIA).
Finite Element Modelling of Surface Waves in a Channel, W85-04014	1812 3F	New Main Lock and Dam Krotzenburg (Die neue Main-Staustufe Krotzenburg), W85-03264
1808 8B		1807 8A
<b>NEBRAKA UNIV.-LINCOLN. DEPT. OF CIVIL ENGINEERING.</b>	<b>NEUCHATEL UNIV. (SWITZERLAND).</b>	
Influence of Anisotropy on Relations Between Electrical and Hydraulic Properties of Aquifers, W85-03756	Regulation of Trace Metal Concentrations in Freshwater Systems, W85-05327	
1807 2F	1810 2K	
<b>Relations Between Aquifer Electrical and Hydraulic Properties, W85-05839</b>	<b>NEVADA UNIV., LAS VEGAS. DEPT. OF BIOLOGICAL SCIENCES.</b>	
1810 2F	Relationships Among Observed Metal Concentrations, Criteria, and Benthic Community Structural Responses in 15 Streams, W85-02584	
	1805 5A	

## ORGANIZATIONAL INDEX

### NEVADA UNIV., LAS VEGAS. LAKE MEAD LIMNOLOGICAL RESEARCH CENTER.

**NEVADA UNIV., LAS VEGAS. LAKE MEAD LIMNOLOGICAL RESEARCH CENTER.**  
Limnology in Reservoirs on the Colorado River,  
W85-01812 1804 2H

**NEVADA UNIV., RENO.**  
Assessing Hazardous Waste Problems,  
W85-03054 1806 5A

**NEVADA UNIV., RENO. DEPT. OF BIOLOGY.**  
Analysis of Pollutant Enhanced Bacterial Blue-Green Algal Interrelationships Potentiating Surface Water Contamination by Noxious Blue-Green Algal Blooms,  
W85-01803 1804 5C

**NEVADA UNIV., RENO. DEPT. OF PLANT, SOIL AND WATER SCIENCE.**  
Water Quality of Irrigation and Surface Return Flows from Flood-Irrigated Pasture and Alfalfa Hay,  
W85-03856 1808 5B

**NEVADA UNIV., RENO. DEPT. OF RANGE, WILDLIFE AND FORESTRY.**  
Techniques for Evaluating Spatial and Temporal Variability in Surface Water Quality as Related to Soil Moisture and Subsurface Water Flux in Forested Watersheds,  
W85-00860 1802 5B

**NEVADA UNIV., RENO. DIV. OF PLANT, SOIL AND WATER SCIENCE.**  
Quantity and Quality Variations in Subsurface Drainage,  
W85-01188 1803 2G

**NEVADA UNIV. SYSTEM, LAS VEGAS. DESERT RESEARCH INST.**  
How Snow Crystals Grow,  
W85-03314 1807 2C

Model-Derived Estimates of Groundwater Mean Ages, Recharge Rates, Effective Porosities and Storage in a Limestone Aquifer,  
W85-06047 1811 2F

**NEVADA UNIV. SYSTEM, RENO. DESERT RESEARCH INST.**  
Limnology of a Desertic Terminal Lake, Walker Lake, Nevada, U.S.A.,  
W85-04064 1808 2H

**NEVADA UNIV. SYSTEM, RENO. WATER RESOURCES CENTER.**  
LP Embedded Simulation Model for Conjunctive Use Management Optimization,  
W85-01801 1804 4B

Hydrogeochemical Investigation of Thermal Springs in the Black Canyon-Hoover Dam Area, Nevada and Arizona,  
W85-01804 1804 2K

**NEW BRUNSWICK UNIV., ST. JOHN. DEPT. OF BIOLOGY.**  
Communities and Ecosystems.  
W85-05592 1810 5C

**NEW HAMPSHIRE UNIV., DURHAM.**  
Time Series Models for Treatment of Surface Waters,  
W85-04965 1809 5F

**NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF BOTANY AND PLANT PATHOLOGY.**  
Family of Pneumatically-Operated Thin Layer Samplers for Replicate Sampling of Heterogeneous Water Columns,  
W85-06787 1812 7B

**NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF CIVIL ENGINEERING.**  
Some Considerations on Iron Removal,  
W85-03802 1808 5F

Treatment of Electroless Copper Plating Wastes,  
W85-05431 1810 5D

Aluminum in Drinking Waters,  
W85-05914 1811 5F

**NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF EARTH SCIENCES.**  
Bedrock Depth Estimates from Ground Magnetometer Profiles,  
W85-01530 1803 2F

Dewatering of an Unvegetated Muddy Tidal Flat During Exposure - Desiccation or Drainage,  
W85-02996 1806 2L

Control by Organic Coatings of the Surface Charge of Estuarine Suspended Particles,  
W85-07073 1812 2L

**NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF RESOURCE ECONOMICS AND COMMUNITY DEVELOPMENT.**

New Hampshire Water Systems: Environmental and Ownership Considerations,  
W85-04997 1810 6B

**NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF ZOOLOGY.**

Ecosystem Definition and Community Structure of the Macrofauna of the NEMP Monitoring Station at Pigeon Hill in the Gulf of Maine,  
W85-05580 1810 2L

**NEW HAMPSHIRE UNIV., DURHAM. WATER RESOURCES RESEARCH CENTER.**

Uncertainty in Water Resource Planning: An Economic Evaluation of a Water Use Reduction Alternative,  
W85-00862 1802 6C

**NEW HAMPSHIRE WATER SUPPLY AND POLLUTION CONTROL COMMISSION, CONCORD.**

Dispersion Modeling of Multiple Sources Using the HP-41CV,  
W85-04644 1809 5B

**NEW JERSEY AGRICULTURAL EXPERIMENT STATION, NEW BRUNSWICK.**

Trophic Importance of Spartina alterniflora Production and Decomposition to the Marsh-Estuarine Ecosystem,  
W85-00117 1801 2L

Specification of United States Seasonal Precipitation,  
W85-07141 1812 2B

**NEW JERSEY DEPT. OF ENVIRONMENTAL PROTECTION, TRENTON.**

Permit Fees for New Jersey's Surface and Groundwater Dischargers,  
W85-00281 1801 6E

Phosphorus Management LP Model Case Study,  
W85-02977 1806 5G

New Tactic Against Hazardous Waste,  
W85-06818 1812 6E

**NEW JERSEY DEPT. OF ENVIRONMENTAL PROTECTION, TRENTON. DIV. OF WATER RESOURCES.**

Cold Brook Macroinvertebrate Survey,  
W85-00816 1802 5C

Beden Brook Intensive Stream Survey, Spring/Summer, 1982: Intensive Survey No. 823404,  
W85-00817 1802 5A

Intensive Survey: Manasquan Estuary, May-September 1978,  
W85-00818 1802 5A

Upper Lamington River Intensive Survey, Intensive Survey No. 803404.  
W85-00819 1802 5B

1980 Whippoorwill River Intensive Survey, Intensive Survey No. 803403,  
W85-00820 1802 5B

Musconetcong River Intensive Survey Report  
803401,  
W85-00821 1802 5B

Water Quality and Biological Effects of the Accurate Forming Industrial Discharge.  
W85-00822 1802 5B

New Jersey 1982 State Water Quality Inventory Report, Executive Summary,  
W85-06348 1812 5G

New Jersey 1982 State Water Quality Inventory Report, W85-06349 1812 5G

New Jersey 1982 State Water Quality Inventory Report, Appendix--Delaware River Basin,  
W85-06350 1812 5G

New Jersey 1982 State Water Quality Inventory Report, Appendix--Atlantic Coastal Basin,  
W85-06351 1812 5G

New Jersey 1982 State Water Quality Inventory Report, Appendix--Raritan River Basin,  
W85-06352 1812 5C

New Jersey 1982 State Water Quality Inventory Report, Appendix--Northeast New Jersey Waters,  
W85-06353 1812 5G

Lower Cuckoo Brook Water Body Survey and Use Attainability Analysis,  
W85-06361 1812 5C

Impact of Sewage Bypass on Newark Bay,  
W85-06362 1812 5C

Preliminary Study of the Water Quality Impact Due to the Wanaque South Project.  
W85-06363 1812 5G

Water Quality Analysis of the Passaic River at the Diversion Intake of the Passaic Valley Water Commission.  
W85-06364 1812 5B

Recommended Procedures for Evaluating Trade-Offs Between CBOD and NBOD in the Wasteload Allocations, (Draft),  
W85-06365 1812 6A

**NEW JERSEY INST. OF TECH., NEWARK. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.**

Is Hazardous Waste Disposal in Clay Vaults Safe,  
W85-03617 1807 5G

**NEW JERSEY MEDICAL SCHOOL, NEWARK. DEPT. OF ANATOMY.**  
Metallothionein and Mercury Tolerance in the Killifish Fundulus heteroclitus,  
W85-05885 1811 5C

**NEW JERSEY MEDICAL SCHOOL, NEWARK. DEPT. OF PHARMACOLOGY.**  
Metabolism and Pharmacokinetics of Alternate Drinking Water Disinfectants,  
W85-01200 1803 5F

**NEW MEXICO HEALTH AND ENVIRONMENT DEPT., SANTA FE. ENVIRONMENTAL IMPROVEMENT DIV.**  
Septic Tanks, Lot Size and Pollution of Water Table Aquifers,  
W85-01155 1803 5B

## ORGANIZATIONAL INDEX

### NEW YORK STATE COLL. OF AGRICULTURE AND LIFE SCIENCES, ITHACA. ECOLOGY

#### **NEW MEXICO INST. OF MINING AND TECHNOLOGY, SOCORRO.**

Stochastic Analysis of Unsaturated Flow in Heterogeneous Soils; 1. Statistically Isotropic Media,  
W85-06499 1812 2G

Stochastic Analysis of Unsaturated Flow in Heterogeneous Soils; 2. Statistically Anisotropic Media with Variable alpha,  
W85-06500 1812 2G

Stochastic Analysis of Unsaturated Flow in Heterogeneous Soils; 3. Observations and Applications,  
W85-06501 1812 2G

#### **NEW MEXICO INST. OF MINING AND TECHNOLOGY, SOCORRO. DEPT. OF GEOSCIENCE.**

Galerkin Finite-Element Program for Simulating Unsaturated Flow in Porous Media,  
W85-04645 1809 2F

Field Method to Determine Unsaturated Hydraulic Conductivity Using Flow Nets,  
W85-04791 1809 2G

Evaluation of Closed-Form Analytical Models to Calculate Conductivity in a Fine Sand,  
W85-05179 1810 2G

#### **NEW MEXICO INST. OF MINING AND TECHNOLOGY, SOCORRO. DEPT. OF MATHEMATICS.**

Stochastic Models of Subsurface Flow: Log Linearized Gaussian Models Are 'Exact' for Covariances,  
W85-03997 1808 2G

#### **NEW MEXICO STATE UNIV., LAS CRUCES.**

Field Study of Plant Resistance to Water Flow in Alfalfa,  
W85-03360 1807 2I

#### **NEW MEXICO STATE UNIV., LAS CRUCES. DEPT. OF AGRICULTURAL ENGINEERING.**

Water-Use Production Functions of Selected Agronomic Crops in Northwestern New Mexico, Phase II,  
W85-01817 1804 3F

Closed Border Irrigation Evaluations,  
W85-03486 1807 3F

#### **NEW MEXICO STATE UNIV., LAS CRUCES. DEPT. OF ANIMAL AND RANGE SCIENCES.**

Evaluation of the Hydrologic Soil Groups as Used in the SCS Runoff Method on Rangelands,  
W85-01384 1803 2G

#### **NEW MEXICO STATE UNIV., LAS CRUCES. DEPT. OF CIVIL ENGINEERING.**

Removal of Volatile Organic Pollutants from Rapid Streams,  
W85-01738 1804 5B

#### **NEW MEXICO STATE UNIV., LAS CRUCES. DEPT. OF CROP AND SOIL SCIENCES.**

Cadmium Sorption and Mobility in Sludge-Amended Soil,  
W85-03097 1806 5E

#### **NEW MEXICO UNIV., ALBUQUERQUE.**

Assurance of Reasonable Toxic Risk,  
W85-04190 1808 6E

#### **NEW MEXICO UNIV., ALBUQUERQUE. DEPT. OF ECONOMICS.**

Practically Irrigable Acreage and Economic Feasibility: The Role of Time, Ethics, and Discounting,  
W85-01251 1803 6E

#### **NEW MEXICO UNIV., ALBUQUERQUE. DEPT. OF GEOLOGY.**

Model for the Relationships Between Precipitation D/H Ratios and Precipitation Intensity,  
W85-00517 1802 2B

D/H Variations of Meteoric Waters in Albuquerque, New Mexico, U.S.A.,  
W85-05532 1810 2F

**NEW MEXICO UNIV., ALBUQUERQUE. DEPT. OF MATHEMATICS AND STATISTICS.**  
Competition Versus Optimal Control in Groundwater Pumping when Demand is Nonlinear,  
W85-02141 1804 4B

#### **NEW MEXICO WATER RESOURCES RESEARCH INST., LAS CRUCES.**

Irrigated Agricultural Decision Strategies for Variable Weather Conditions,  
W85-06340 1812 6A

#### **NEW ORLEANS UNIV., LA. CENTER FOR BIO-ORGANIC STUDIES.**

Volatile Organic Pollutants in Biota and Sediments of Lake Pontchartrain,  
W85-04476 1809 5A

#### **NEW SOUTH WALES INST. OF TECH., BROADWAY (AUSTRALIA). SCHOOL OF CHEMICAL AND EARTH SCIENCES.**

Selective Separation and Determination of Dissolved Chromium Species in Natural Waters by Atomic Absorption Spectrometry,  
W85-05524 1810 5A

#### **NEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA). DEPT. OF CIVIL ENGINEERING.**

Hysteresis Affected Water Movement in Scale Heterogeneous Profiles,  
W85-01346 1803 2G

Unsteady Shallow Groundwater Flow Over a Curved Impermeable Boundary,  
W85-03166 1806 2F

#### **NEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA). FACULTY OF MILITARY STUDIES.**

Leakages in Urban Water Systems: Village Creek, Canberra, Australia,  
W85-06603 1812 5F

#### **NEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA). SCHOOL OF CIVIL ENGINEERING.**

Modification of a Stevens Type-F Recorder for Simultaneous Recording of Rainfall and Water Level,  
W85-01191 1803 7B

Time Patterns of Rainfall For Estimating Design Floods on a Frequency Basis,  
W85-01687 1804 2B

Algebraic Equations for Solute Movement During Adsorption,  
W85-02369 1805 2G

Influence of Organic Shock Loads on the Performance of an Anaerobic Fluidized Bed System,  
W85-05558 1810 5D

#### **NEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA). SCHOOL OF FOOD TECHNOLOGY.**

Effects of Water Temperature and Salinity on Elimination of *Salmonella* *cholerae* and *Escherichia coli* from Sydney Rock Oysters (*Crassostrea commercialis*),  
W85-03436 1807 5B

#### **NEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA). SCHOOL OF GEOGRAPHY.**

New Global Assessment of the Status and Trends of Desertification,  
W85-03201 1806 2A

#### **NEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA). WATER RESEARCH LAB.**

Purging of Saline Wedges from Ocean Outfalls,  
W85-03791 1808 2L

**NEW UNIV. OF ULSTER, COLERAINE (NORTHERN IRELAND). LIMNOLOGY LAB.**  
Rates of Sediment-Water Exchange of Oxygen and Sediment Bioturbation in Lough Neagh, Northern Ireland,  
W85-02085 1804 2H

Variation of Calcium, Magnesium, Sodium and Potassium Concentration, pH and Conductivity in Lakes in Northern Ireland,  
W85-02894 1806 2H

Planktonic and Benthic Bacterial Populations of Lough Neagh,  
W85-05807 1810 2H

#### **NEW UNIV. OF ULSTER, COLERAINE (NORTHERN IRELAND). SCHOOL OF BIOLOGICAL AND ENVIRONMENTAL STUDIES.**

Environmental Impact Assessment of the Strangford Lough Tidal Power Barrage Scheme in Northern Ireland,  
W85-00566 1802 6G

Infiltration Measurements in a Small Lowland Catchment,  
W85-03090 1806 2E

#### **NEW YORK BOTANICAL GARDEN, BRONX, NY.**

Long-Term Trends in Precipitation Chemistry at Hubbard Brook, New Hampshire,  
W85-04502 1809 5B

#### **NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION, WARDS ISLAND. DIV. OF WEST OPERATIONS.**

Sludge Reduction by In-Plant Process Modification: New York City's Experiences,  
W85-07039 1812 5E

#### **NEW YORK SEA GRANT LAW CENTER, BUFFALO.**

Regulation of Bulk Hazardous Cargoes on the Great Lakes,  
W85-00940 1802 5G

#### **NEW YORK STATE COLL. OF AGRICULTURE AND LIFE SCIENCES, ITHACA.**

Biodegradation of Organic Chemicals,  
W85-04797 1809 5B

#### **NEW YORK STATE COLL. OF AGRICULTURE AND LIFE SCIENCES, ITHACA. DEPT. OF AGRICULTURAL ENGINEERING.**

Improved Soil Erosion Classification for Conservation Policy,  
W85-03351 1807 2J

Optimal Drain Design for Arid, Irrigated Areas,  
W85-03403 1807 3F

Hydraulic Loading for Land Treatment Sites Under Non-Ideal Conditions,  
W85-05401 1810 5D

#### **NEW YORK STATE COLL. OF AGRICULTURE AND LIFE SCIENCES, ITHACA. DEPT. OF NATURAL RESOURCES.**

Mercury Levels in Brook Trout (*Salvelinus fontinalis*) from Selected Acid and Limed Adirondack Lakes,  
W85-00204 1801 5C

#### **NEW YORK STATE COLL. OF AGRICULTURE AND LIFE SCIENCES, ITHACA. ECOLOGY AND SYSTEMATICS SECTION.**

Partitioning of Phosphorus Between Particles and Water in a River Outflow,  
W85-02075 1804 2H

## ORGANIZATIONAL INDEX

### NEW YORK STATE COLL. OF HUMAN ECOLOGY, ITHACA. DEPT. OF DESIGN AND

#### NEW YORK STATE COLL. OF HUMAN ECOLOGY, ITHACA. DEPT. OF DESIGN AND ENVIRONMENTAL ANALYSIS.

Quantitative Determination of ppb Levels of Carbamate Pesticide in Water by Capillary Gas Chromatography,  
W85-01747

1804 5A

Hydrolysis of Aldicarb, Aldicarb Sulfoxide, and Aldicarb Sulfone at Parts per Billion Levels in Aqueous Mediums,  
W85-02720

1806 5B

Nitrate Contamination: Public Awareness,  
W85-04828

1809 5F

#### NEW YORK STATE COLL. OF VETERINARY MEDICINE, ITHACA.

Toxicologic Studies Associated with the Agricultural Use of Municipal Sewage Sludge and Health Effects among Sewage Treatment Plant Workers,  
W85-04776

1809 5E

#### NEW YORK STATE DEPT. OF HEALTH, ALBANY. DIV. OF LABS. AND RESEARCH.

PCB Congener Analysis of Water and Caddisfly Larvae (Insecta: Trichoptera) in the Upper Hudson River by Glass Capillary Chromatography,  
W85-04350

1808 5A

#### NEW YORK STATE MUSEUM, ALBANY. SCIENCE SERVICE DIV.

Lake Acidification and the Biology of Adirondack Lakes: I. Rotifer Communities,  
W85-02646

1805 5C

#### NEW YORK STATE OFFICE OF PUBLIC HEALTH, ALBANY. CENTER FOR LABS. AND RESEARCH.

Concentration and Surface Morphology of Charcoal Particles in Sediments of Green Lake, N.Y.: Implications Regarding the Use of Energy in the Past,  
W85-00937

1802 5B

#### NEW YORK UNIV. MEDICAL CENTER, NY. INST. OF ENVIRONMENTAL MEDICINE.

Evaluation of Capping Operations at the Experimental Mud Dump Site, N.Y. Bight Apex, 1980,  
W85-00049

1801 5E

Identifying Chemical Signatures for Disposed Dredged Materials.  
W85-00050

1801 5E

Capping of Contaminated Sediments,  
W85-00938

1802 5G

Measurement of the Effect of Aroclor 1254 on the Respiration of Gammarus using Potentiometric Respirometry,  
W85-07122

1812 5C

#### NEW YORK UNIV., NY. DEPT. OF BIOLOGY. Heavy Metal Toxicity to Microbe-Mediated Ecologic Processes: A Review and Potential Application to Regulatory Policies, W85-04435

1809 5C

#### NEW YORK UNIV., NY. LAB. OF MICROBIAL ECOLOGY.

Nickel Toxicity to Microbes: Effect of pH and Implications for Acid Rain,  
W85-00286

1801 5C

#### NEW ZEALAND FOREST SERVICE, ROTORUA. FOREST RESEARCH INST.

Hydrological Regime of Undisturbed Mixed Evergreen Forests, South Nelson, New Zealand,  
W85-00179

1801 4C

Vegetation of Three Mountain Mires, West Taupo, New Zealand,  
W85-06785

1812 2H

#### NEW ZEALAND GEOLOGICAL SURVEY, DUNEDIN.

Modern Sedimentation at Falis Dam, Upper Manuherikia River, Central Otago, New Zealand,  
W85-03488

1807 2J

#### NEW ZEALAND SOIL BUREAU, LOWER HUTT.

Investigation of the Properties and Genesis of West Coast Wet Land Soils, South Island, New Zealand; 5. Physical Characteristics of Soil Profiles and Soil Water Regimes,  
W85-02411

1805 2G

#### NEWCASTLE AND GATESHEAD WATER CO., NEWCASTLE-UPON-TYNE (ENGLAND).

Micro-Electronics in the Water Industry - A Review of Present and Probable Future Developments,  
W85-02008

1804 6A

#### NEWCASTLE UNIV. (AUSTRALIA). DEPT. OF CHEMISTRY.

Influence of Surfactants on the Determination of Cu, Pb, and Cd by ASV,  
W85-02429

1805 5A

#### NEWCASTLE UNIV. (AUSTRALIA). DEPT. OF CHEMISTRY.

Interaction of Clays with Dilute Fluoride Solutions,  
W85-02928

1806 2K

#### NEWCASTLE UNIV. (AUSTRALIA). DEPT. OF CHEMISTRY.

Effect of Organic Colloids on ASV Signals of Cd, Pb and Cu,  
W85-06572

1812 5A

#### NEWCASTLE UPON TYNE UNIV. (ENGLAND).

Surge Shaft Stability with Pumped-Storage Schemes,  
W85-00725

1802 8A

#### NEWCASTLE UPON TYNE UNIV. (ENGLAND).

Application of Anaerobic Packed-Bed Reactors to Industrial Wastewater Treatment,  
W85-05281

1810 5D

#### NEWCASTLE UPON TYNE UNIV. (ENGLAND). DEPT. OF CIVIL ENGINEERING.

Incipient Motion of Sediment Particles Over Fixed Beds,  
W85-02931

1806 2J

#### NEWCASTLE UPON TYNE UNIV. (ENGLAND). DEPT. OF CIVIL ENGINEERING.

Estimating Nonpotential Evapotranspiration by Means of the Equilibrium Evaporation Concept,  
W85-05801

1810 2D

#### NEWCASTLE UPON TYNE UNIV. (ENGLAND). DEPT. OF CIVIL ENGINEERING.

Costs of Anaerobic Processes in the Pulp and Paper Industry,  
W85-07017

1812 5D

#### NEWCASTLE UPON TYNE UNIV. (ENGLAND). DEPT. OF ZOOLOGY.

Acute Toxicity of Heavy Metals to Two Species of Marine Nematodes,  
W85-01351

1803 5C

#### NEWCASTLE UPON TYNE UNIV. (ENGLAND). PUBLIC HEALTH ENGINEERING DIV.

Treatment of Cork-Stopper Manufacturing Wastes,  
W85-05295

1810 5D

#### NEWMARK (NATHAN M.) CONSULTING ENGINEERING SERVICES, URBANA, IL.

Nonsteady-State-Biofilm Process for Advanced Organics Removal,  
W85-01658

1804 5D

#### NICE UNIV. (FRANCE). GROUPE DE RECHERCHES DE SEDIMENTOLOGIE ET GEOCHRONOLOGIE MARINES.

Behaviour of Metallic and Radioactive Elements in Lagoonal Sediments: the Example of the Canet-St Nazaire Pond (Mediterranean Coast),  
W85-00914

1802 2L

#### NICOLAS COPERNICUS UNIV. OF TORUN (POLAND). INST. OF CHEMISTRY.

Ions and Water Transport Across Charged Nafion Membranes. Irreversible Thermodynamics Approach,  
W85-02551

1805 3A

#### NIEDERSAECHSISCHES LANDESAMT FUER BODENFORSCHUNG, HANOVER (GERMANY, F.R.).

Hydrogeological Study With Environmental Isotopes of Karst Waters of the Eastern Swabian Alb and the Danube Ried (Hydrogeologische Studie mit Umweltisotopen an Karstwassern der Ostlichen Schwabischen Alb und des Donaurieds (Baden-Wurtemberg und angrenzendes Bayern)),  
W85-00765

1802 2F

#### NIEDERSAECHSISCHES LANDESVERWALTUNGSAKT - FACHBEHOERDE FUER NATURSCHUTZ, HANOVER (GERMANY, F.R.).

Water Resources Development and Management Plans; Part 5: Leine Pilot Project, Objectives of Nature Preservation as Ecological Valuation Compass for the Rivers of the Leine Basin (Bewirtschaftungsplane; Teil V: Pilotprojekt Leine, Zielvorstellungen des Naturschutzes als ökologischer Bewertungsrahmen für die Gewässer des Leinegebietes),  
W85-00965

1802 6G

#### NIGERIA UNIV., NSUKKA. DEPT. OF GEOGRAPHY.

Variation of Model Parameter Values and Sensitivity with Type of Objective Function,  
W85-00180

1801 2A

#### NIGERIA UNIV., NSUKKA. DEPT. OF MECHANICAL ENGINEERING.

Slow-Zone Model for Longitudinal Dispersion in Two-Dimensional Shear Flows,  
W85-07083

1812 5B

#### NIPPON INST. OF TECH., SAITAMA. DEPT. OF APPLIED STATISTICS.

Statistical View of Heavy Metal Pollution Index of River Sediment,  
W85-00132

1801 5A

#### NITTO ELECTRIC CO. LTD., OSAKA (JAPAN).

Treatment of Highly Fouling Waste Waters with Tubular Membrane Systems,  
W85-01225

1803 5D

#### New Thin-Film Composite Reverse Osmosis Membranes and Spiral Wound Modules, W85-02553

1805 3A

#### NORANDA RESEARCH CENTRE, POINTE CLAIRE (QUEBEC).

CANMET'S Project on the Chemistry, Generation and Treatment of Thiosalts in Milling Effluents,  
W85-07091

1812 5D

#### NORCONSULT A/S, SANDVIKA (NORWAY).

Drinking Water in Developing Countries - The Minimum Treatment Philosophy. A Case Study,  
W85-02018

1804 3B

## ORGANIZATIONAL INDEX

**NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF SOIL SCIENCE.**

<b>NORDRHEIN-WESTFAELEN MINISTERIUM FUER ERNAEHRUNG, LANDWIRTSCHAFT UND FORSTEN, DUESSELDORF (GERMANY, F.R.).</b>	
Ideas Regarding the Renovation/Restoration of Old Dams (Überlegungen zur Sanierung alter Talsperren), W85-03253	1807 8A
<b>NORGES GEOTEKNIKSE INST., OSLO.</b>	
Unconventional Concepts for Dykes and Dams on Soft Clay Foundation, W85-03429	1807 8A
<b>NORGES LANDBRUKSHOEUGSKOLE, AAS. DEPT. OF AGRICULTURAL HYDROTECHNICS.</b>	
Conceptual Model of Lake Acidification, W85-04531	1809 5C
<b>NORGES LANDBRUKSHOEUGSKOLE, AAS. INST. FOR GEORESOURCES AND POLLUTION RESEARCH.</b>	
Testing of Biological (Composting) Toilets and Practical Experiences in Norway, W85-05207	1810 5D
Subsurface Adsorption Systems - Frost Problems and Prevention of Frost, W85-05217	1810 5D
Scandinavian Guidelines and Training Programs for Design, Construction, Operation and Maintenance of Sewerage Treatment Systems in Rural Areas, W85-05219	1810 5D
<b>NORGES TEKNISKE HOEGSKOLE, TRONDHEIM. DEPT. OF GEOLOGY.</b>	
Unlined High Pressure Tunnels in Areas of Complex Topography, W85-04412	1809 8A
<b>NORGES VASSDRAGS- OG ELEKTRISITETSVESEN, OSLO. HYDROLOGICAL DIV.</b>	
Subglacial Hydrology and Sediment Transport at Bondhusbrean, Southwest Norway, W85-05733	1810 2C
<b>NORGES VETERINAERHOEGSKOLE, OSLO. INST. FOR FARMAKOLOGI OG TOKSIKOLOGI.</b>	
Time Trends of Organochlorine Chemical Residues in Seven Sedentary Marine Fish Species from a Norwegian Fjord during the Period 1972-1982, W85-04365	1808 5B
<b>NORSK INST. FOR SKOGFORSKNING, AAS.</b>	
Acid Precipitation and Forest Growth in Norway, W85-03489	1807 5C
Possible Indirect Long-Term Effects of Acid Precipitation on Forest Growth, W85-03490	1807 5C
<b>NORSK INST. FOR VANNFORSKNING, OSLO.</b>	
Norwegian Activities on Collection and Research on Rainfall Data, W85-01691	1804 2B
Environmental Factors and Aquatic Macrophyte Response in Regulated Lakes - A Statistical Approach, W85-02793	1806 2H
Electrocoagulation of Potable Water, W85-02906	1806 5F
Toxic Blue-Green Algal Blooms in Europe: A Growing Problem, W85-03199	1806 5C
Effects of Diesel Oil on Recolonization of Benthic Algae, W85-03503	1807 5C
Changes in Base Cation Concentrations Due to Freshwater Acidification, W85-04532	1809 5C
Septage Quantity, Characteristics and Treatment Methods, W85-05204	1810 5D
Norwegian Models for Surface Chemistry: An Overview, W85-05317	1810 2A
Influence of Current Velocity on Periphyton Distribution and Succession in a Norwegian Soft Water River, W85-05677	1810 2H
Removing Aquatic Humus from Norwegian Lakes, W85-06586	1812 5F
<b>NORSK POLARINSTITUTT, OSLO.</b>	
Concentrations of Seabirds Along the Face of Glaciers and Outlets of Rivers in Svalbard (Kon-sentrasiøn av sjøfugl langs kanten av isbrear og utenfor breelver på Svalbard), W85-04608	1809 2L
<b>NORSK TRETEKNIK INST., OSLO.</b>	
Acute Toxicity and Chemical Characteristics of Moderately Polluted Runoff from Highways, W85-00745	1802 5C
Effect of Highway Runoff on Lake Water Quality, W85-00747	1802 5B
<b>NORTH AMERICAN WEATHER CONSULTANTS, SALT LAKE CITY, UT.</b>	
Continuing Design, Review, and Analysis Work for the Sierra Cooperative Pilot Project, W85-05349	1810 3B
<b>NORTH ANDOVER, MA.</b>	
Hydroelectric Generator Used by Treatment Plant, W85-02301	1805 5D
<b>NORTH CANTERBURY CATCHMENT BOARD, CHRISTCHURCH (NEW ZEALAND).</b>	
Analysis of Changes in the Invertebrate Community Along a Southern New Zealand Montane Stream, W85-04724	1809 2H
<b>NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIV., GREENSBORO. DEPT. OF PLANT SCIENCE AND TECHNOLOGY.</b>	
Effect of Domestic Effluents on Groundwater Quality: A Case Study, W85-04361	1808 5B
<b>NORTH CAROLINA AGRICULTURAL RESEARCH SERVICE, RALEIGH.</b>	
Acid Rain and Atmospheric Deposition: Causes, Consequences, and Research Needs, W85-04235	1808 5B
<b>NORTH CAROLINA DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT, RALEIGH.</b>	
Agriculture and Stream Water Quality: A Biological Evaluation of Erosion Control Practices, W85-02296	1805 5C
<b>NORTH CAROLINA DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT, RALEIGH. DIV. OF ENVIRONMENTAL MANAGEMENT.</b>	
Policies and Procedures for Land Treatment of Wastewater, W85-00082	1801 5D
Benthic Macroinvertebrates of Cane Creek, North Carolina, and Comparisons with Other Southeastern Streams, W85-06799	1812 2H
<b>NORTH CAROLINA STATE UNIV. AT RALEIGH. DEPT. OF BIOLOGICAL AND AGRICULTURAL ENGINEERING.</b>	
Subsurface Drainage Water Quality from Land Application of Swine Lagoon Effluent, W85-01196	1803 5E
Selecting Critical Areas for Nonpoint-Source Pollution Control, W85-05950	1811 5G
Swine Lagoon Effluent Applied to 'Coastal' Bermudagrass: III. Irrigation and Rainfall Runoff, W85-06613	1812 5D
<b>NORTH CAROLINA STATE UNIV. AT RALEIGH. DEPT. OF CIVIL ENGINEERING.</b>	
Cracking in Reinforced Concrete Analysis, W85-02273	1805 8F
Recovery and Application of Solids from Crab-Processing Wastewater, W85-05567	1810 5D
<b>NORTH CAROLINA STATE UNIV. AT RALEIGH. DEPT. OF MARINE, EARTH AND ATMOSPHERIC SCIENCES.</b>	
Ground Water Yields and Inventory for Land-Use Planning in Crystalline Rock Areas of Wake County, North Carolina, W85-04994	1810 2F
<b>NORTH CAROLINA STATE UNIV. AT RALEIGH. DEPT. OF SOIL SCIENCE.</b>	
Effect of Loading Rate and Soil Amendments on Inorganic Nitrogen and Phosphorus Leached from a Wastewater Soil Absorption System, W85-01295	1803 5D
Design Nomographs for Trickle Irrigation Systems, W85-01505	1803 8A
Land Application of Kraft Paper Mill Sludges, W85-05395	1810 5E
Swine Lagoon Effluent Applied to 'Coastal' Bermudagrass: II. Effects on Soil, W85-06612	1812 5D
<b>NORTH CAROLINA STATE UNIV. AT RALEIGH. DEPT. OF WOOD AND PAPER SCIENCE.</b>	
Investigation of the Potential of an Enzymatic Treatment of Pulp and Paper Mill Effluent to Facilitate Decolorization by Lime Precipitation, W85-05402	1810 5D
<b>NORTH CAROLINA STATE UNIV. AT RALEIGH. DEPT. OF ZOOLOGY.</b>	
Traveling Screens as Sampling Gear for Vertical Distribution Studies, W85-01842	1804 7B
<b>NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF BIOLOGICAL AND AGRICULTURAL ENGINEERING.</b>	
General Guidelines for Land Treatment of Wastewater, W85-00083	1801 5D
<b>NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF SOIL SCIENCE.</b>	
General Guidelines for Subsurface Treatment of Wastewater, W85-00080	1801 5D
General Guidelines for Land Treatment of Sludge, W85-00081	1801 5D

## ORGANIZATIONAL INDEX

### **NORTH CAROLINA UNIV. AT CHAPEL HILL.**

**NORTH CAROLINA UNIV. AT CHAPEL HILL.**  
Radon-222 Tracing of Sediment-Water Chemical Transport in an Estuarine Sediment, W85-01331 1803 2L

### **NORTH CAROLINA UNIV. AT CHAPEL HILL. AREA HEALTH EDUCATION CENTERS PROGRAM.**

Practical Water Treatment for Communities in Developing Countries, W85-01983 1804 5F

### **NORTH CAROLINA UNIV. AT CHAPEL HILL. CENTER FOR URBAN AND REGIONAL STUDIES.**

Drinking Water Supplies, Protection Through Watershed Management, W85-06934 1812 5G

### **NORTH CAROLINA UNIV. AT CHAPEL HILL. DEPT. OF ENVIRONMENTAL SCIENCES AND ENGINEERING.**

Influence of Spatial and Temporal Variations on Organic Pollutant Biodegradation Rates in an Estuarine Environment, W85-00097 1801 5B

Reaction Products of Aquatic Humic Substances with Chlorine, W85-01206 1803 5F

Optimal Spacing of Interfering Wells: An Analytic Solution, W85-02690 1805 4B

Comparison of Methods of Enumerating Coliforms After UV Disinfection, W85-02938 1806 5A

Water Supply and Health in Developing Countries: Selective Primary Health Care Revisited, W85-03040 1806 6B

Formation and Fate of Bromoform During Desalination, W85-03809 1808 3A

Role of Leaf Litter Nitrogen Immobilization in the Nitrogen Budget of a Swamp Stream, W85-03862 1808 2L

Mass Transfer of NH<sub>3</sub> into Water at Environmental Concentrations, W85-04040 1808 2K

Influence of Easily Degradable Naturally Occurring Carbon Substrates on Biodegradation of Monosubstituted Phenols by Aquatic Bacteria, W85-05050 1810 5B

Influence of Naturally Occurring Humic Acids on Biodegradation of Monosubstituted Phenols by Aquatic Bacteria, W85-05051 1810 5B

Effects of Bentonite Clay Solids on Poliovirus Concentration from Water by Microporous Filter Methods, W85-06141 1811 5A

### **NORTH CAROLINA UNIV. AT CHAPEL HILL. MARINE SCIENCES PROGRAM.**

Biochemical Cycling in an Organic-Rich Coastal Marine Basin, 4. An Organic Carbon Budget for Sediments Dominated by Sulfate Reduction and Methanogenesis, W85-03211 1806 2L

### **NORTH CAROLINA UNIV. AT CHAPEL HILL. SCHOOL OF MEDICINE.**

Virion Conformational Forms and the Complex Inactivation Kinetics of Echovirus by Chlorine in Water, W85-05048 1810 5F

### **NORTH CAROLINA UNIV. AT CHARLOTTE. DEPT. OF MATHEMATICS.**

Stochastic Model for BOD and DO in Streams When the Velocity is Random and Distance-Dependent, W85-01676 1804 5B

General Stochastic Model for Predicting BOD and DO in Streams, W85-05443 1810 5B

### **NORTH CENTRAL FOREST EXPERIMENT STATION, EAST LANSING, MI.**

Water Quality Effects and Growth Benefits of Entrenching Sewage Sludge in Sandy Forest Soils, W85-05384 1810 5E

Applying Liquid Sludge to Forest Land: A Demonstration, W85-05389 1810 5E

### **NORTH DAKOTA MINING AND MINERAL RESOURCES RESEARCH INST., GRAND FORKS.**

Hydrogeochemical Aspects of Surface Mine Reclamation in the Northern Great Plains, W85-06076 1811 4C

### **NORTH DAKOTA STATE UNIV., FARGO. DEPT. OF AGRICULTURAL ECONOMICS.**

Improving Wetland Policy Through Amelioration of Adverse Effects on Local Economies, W85-03134 1806 6B

Proposed Framework for Developing a Multidisciplinary Wetlands Valuation Model, W85-04684 1809 2L

### **NORTH DAKOTA STATE UNIV., FARGO. DEPT. OF SOIL SCIENCE.**

Stored Available Soil Water and the Fallow/Recrop Decision-Critical Level Approach, W85-02874 1806 2I

Computerized Scheme for Chemical Classification of Natural Waters and Soil Extracts, W85-03970 1808 2K

Salt Accumulation in the Rivers of North Dakota, W85-06718 1812 5B

### **NORTH DAKOTA STATE UNIV., MANDAN. LAND RECLAMATION RESEARCH CENTER.**

Soil Water Variation in Spoil and Undisturbed Sites in North Dakota, W85-00757 1802 2G

### **NORTH DAKOTA UNIV., GRAND FORKS. DEPT. OF GEOLOGY.**

Hydrogeochemical Interaction Between a Municipal Waste Stabilization Lagoon and a Shallow Aquifer, W85-03154 1806 5G

### **NORTH DAKOTA UNIV., GRAND FORKS. ENERGY RESEARCH CENTER.**

Gasifier Wastewater Treatment: Phase I Cooling Tower Assessment, W85-04879 1809 5D

### **NORTH-EASTERN HILL UNIV., SHILLONG (INDIA). DEPT. OF BOTANY.**

Dry Weight Loss and Changes in Chemical Composition of Pine (*Pinus kesiya* Royle) Needles and Teak (*Tectona grandis* L.) Leaves During Processing in a Freshwater Lake, W85-00411 1801 2K

### **NORTH SHORE SANITARY DISTRICT, GURNEE, IL.**

On-Line Monitoring Data Replaces Analytical Data, W85-03332 1807 5G

### **NORTH TEXAS STATE UNIV., DENTON. DEPT. OF BIOLOGICAL SCIENCES.**

Swimming Performance of Channel Catfish (*Ictalurus punctatus*) after Nitrite Exposure, W85-07153 1812 5C

### **NORTH TEXAS STATE UNIV., DENTON. DEPT. OF GEOGRAPHY.**

Irrigation and Groundwater Depletion in Caddo County, Oklahoma, W85-06234 1812 4B

### **NORTH TEXAS STATE UNIV., DENTON. INST. OF APPLIED SCIENCES.**

Influence of Sediment Types on the Sorption of Endothall, W85-00133 1801 4A

### **NORTH WEST WATER AUTHORITY, WARRINGTON (ENGLAND).**

COPA II and the River Mersey - a Regional Water Authority View, W85-02225 1805 5D

Present Techniques for 'In-Situ' Sewer Renovation, W85-04518 1809 8F

Destruction of Pathogens and Parasites in Sewage Sludge by Chemical Means, W85-04592 1809 5E

### **NORTH WEST WATER AUTHORITY, WARRINGTON (ENGLAND), RIVERS DIV.**

Use of Second Order Derivative Spectroscopy in the Investigation of Sources of Coloured Pollutants in Water, W85-03541 1807 5A

Effects of Motorway Run-Off on the Ecology of Stream Algae, W85-04466 1809 5C

### **NORTHEAST UTILITIES ENVIRONMENTAL LAB, WATERFORD, CT.**

Multivariate Analysis of Species Composition of Shore-Zone Fish Assemblages Found in Long Island Sound, W85-02997 1806 5A

### **NORTHEASTERN FOREST EXPERIMENT STATION, BEREA, KY.**

Stream Water Quality in the Coal Region of Tennessee, W85-06980 1812 5C

### **NORTHEASTERN FOREST EXPERIMENT STATION, BROOMALL, PA.**

Contribution of Precipitation to Quality of Urban Storm Runoff, W85-04992 1810 5B

Erosion on Very Stony Forest Soil During Phenomenal Rain in Webster County, West Virginia, W85-06967 1812 2J

### **NORTHEASTERN FOREST EXPERIMENT STATION, DURHAM, NH.**

Potential for Acidification of Six Remote Ponds in the White Mountains of New Hampshire, W85-01834 1804 5B

### **NORTHEASTERN FOREST EXPERIMENT STATION, PARSONS, WV. TIMBER AND WATERSHED LAB.**

Plant Nutrient Losses by Soil Erosion and Mass Movement after Wildfire, W85-05972 1811 2J

### **NORTHEASTERN UNIV., BOSTON, MA. DEPT. OF BIOLOGY.**

Distribution and Activity of Bacteria in the Headwaters of the Rhode River Estuary, Maryland, USA, W85-03237 1807 2L

## ORGANIZATIONAL INDEX

**OCCIDENTAL COLL., LOS ANGELES, CA. DEPT. OF BIOLOGY.**

<b>NORTHEASTERN UNIV., BOSTON, MA. DEPT. OF CIVIL ENGINEERING.</b>	Treatment of Beef Slaughtering and Processing Wastewaters using Rotating Biological Contactors, W85-05409	1810 5D	<b>NOTTINGHAM UNIV. (ENGLAND). SCHOOL OF AGRICULTURE.</b>	Soil Water Regimes of Soils Developed on Keuper Marl, W85-01327	1803 2G	Preliminary Classification of Running-Water Sites in Great Britain Based on Macro-Invertebrate Species and the Prediction of Community Type Using Environmental Data, W85-00293	1801 2H
Treatment of Apple Processing Wastewater by the Anaerobic Filter Process, W85-05562	1810 5D		<b>NOVA UNIV. OCEANOGRAPHIC CENTER, DANIA, FL.</b>	Reef-Building Coral Skeletons as Chemical Pollution (Phosphorus) Indicators, W85-00200	1801 5A	Small-Scale Hydroelectric Power for Developing Countries: Methodology of Site-Selection Based on Environmental Issues, W85-00647	1802 6B
<b>NORTHEASTERN UNIV., BOSTON, MA. DEPT. OF EARTH SCIENCES.</b>	Human Modification of Molluscan Habitats in Little Creek Estuary, Virginia, W85-04859	1809 6G	Chronology of Lead Pollution Contained in Banded Coral Skeletons, W85-02472	1805 5B	Parameter Constraints in a Stream Ecosystem Model: Incorporation of A Priori Information in Monte Carlo Error Analysis, W85-01302	1803 2H	
<b>NORTHERN FOREST RESEARCH CENTRE, EDMONTON (ALBERTA).</b>	Predicting Solute Yields in the Natural Waters of a Subalpine System in Alberta, Canada, W85-00876	1802 2K	<b>NUS CORP., PITTSBURGH, PA.</b>	Integrated Ground Water Monitoring Program Using Multilevel Gas-Driven Samplers and Conventional Monitoring Wells, W85-03173	1806 5A	Acute Toxicity of a Synthetic Oil, Aniline and Phenol to Laboratory and Natural Populations of Chironomid (Diptera) Larvae, W85-01445	1803 5A
<b>NORTHERN HUNGARIAN WATER CONSERVANCY DIRECTORATE, MISKOLC.</b>	Biological Water Quality of the Tisza Between Tokaj and Tiszafüred (On the Basis of Studies Carried out Between the Period 1971-1980), W85-03113	1806 5C	<b>O'BRIEN AND GERE ENGINEERS, INC., BLUE BELL, PA.</b>	Alternative Sludge Handling and Disposal at Kent County, Delaware, W85-07049	1812 5E	Inventories and Sorption-Desorption Trends of Radiocesium and Radiocobalt in James River Estuary Sediments, W85-04601	1809 5B
<b>NORTHERN TESTING LAB., INC., FAIRBANKS, AK.</b>	Water Conservation in Barrow, Alaska, W85-04918	1809 6B	<b>O'BRIEN AND GERE ENGINEERS, INC., SYRACUSE, NY.</b>	Bioaccumulation Study on Homarus americanus. W85-00045	1801 5C	Phosphorus Uptake by Decomposing Leaf Detritus: Effect of Microbial Biomass and Activity, W85-05670	1810 2H
<b>NORTHUMBRIAN WATER AUTHORITY, GOSFORTH (ENGLAND).</b>	Pollution Control Policies for the Tees Estuary, W85-04525	1809 5G	<b>Surface and Borehole Geophysical Methods in Ground Water Investigations,</b> W85-03189	1806 2F	Persistence of Phenols in Aquatic Microcosms Receiving Chronic Inputs of Coal-Derived Oil, W85-05700	1810 5B	
<b>NORTHWEST CONSULTANT OCEANOGRAPHERS, INC., SEATTLE, WA.</b>	Case Study of the Abuse of Science in Sewage Planning, W85-04379	1808 6B	<b>O'BRIEN AND GERE ENGINEERS, INC., WHITE PLAINS, NY.</b>	Treatability of a Coal Gasification Wastewater Using the Powdered Activated Carbon/Activated Sludge Process, W85-05270	1810 5D	Comparisons of Successive Iteration and Direct Methods to Solve Finite Element Equations of Aquifer Contaminant Transport, W85-05790	1810 5B
<b>NORTHWESTERN CONNECTICUT REGIONAL PLANNING COMMISSION, WARREN, CT. LAKE WARAMAUG TASK FORCE.</b>	Available Phosphorus in Lake Sediments in the Netherlands, W85-02092	1804 2H	<b>OAK RIDGE NATIONAL LAB., TN.</b>	Tracing Fluid Sources in the East Shore Area, Utah, W85-00337	1801 2F	Effects of Temperature, Feeding and Acridine on Reproduction of the Calanoid Copepod, Diaptomus clavipes Schacht, W85-05850	1811 5C
<b>NORTHWESTERN UNIV., EVANSTON, IL. DEPT. OF MATERIALS SCIENCE.</b>	Stability of Sheet Water Flow under a Glacier, W85-03341	1807 2C	Determination of Munitions Components in Water by Resin Adsorption and High-Performance Liquid Chromatography-Electrochemical Detection, W85-03410	1807 5A	Striped Bass, Temperature, and Dissolved Oxygen: A Speculative Hypothesis for Environmental Risk, W85-06404	1812 5C	
<b>NORWEGIAN HYDRODYNAMIC LABS., TRONDHEIM.</b>	Underwater Piercing of a Tunnel, W85-04415	1809 8A	Polishing Treatment of Coal Liquefaction Wastewaters, W85-04036	1808 5D	Evapotranspiration and Soil Heterogeneity, W85-06679	1812 2D	
<b>NORWEGIAN LIMING PROJECT, ARENDAL.</b>	Efficiency of Liming in Acid, Humus-Influenced Lakes, W85-04533	1809 5G	Biooxidation of Coal Gasification Wastewaters, W85-04038	1808 5D	Effectiveness of Hydrotreatment in Reducing the Toxicity of a Coal Liquefaction Product to Juvenile Channel Catfish, W85-07152	1812 5G	
<b>NOTRE DAME UNIV., IN.</b>	Enhanced Biological Treatment of Leachates from Industrial Landfills, W85-05299	1810 5D	Status of Health and Environmental Research Relative to Solid Wastes from Coal Conversion, W85-04229	1808 5C	<b>OAK RIDGE NATIONAL LAB., TN. HEALTH AND SAFETY RESEARCH DIV.</b>		
<b>NOTRE DAME UNIV., IN. DEPT. OF CIVIL ENGINEERING.</b>	Instantaneous Equilibrium Approximation Analysis, W85-03784	1808 2F	Aquifer Test Analysis in Nonradial Flow Regimes: A Case Study, W85-05837	1810 2F	DUVAS As a Real-Time, Field-Portable Wastewater Monitor for Phenolics, W85-01159	1803 7B	
Multicomponent Solute Transport with Sorption and Soluble Complexation, W85-04171	1808 5B	<b>OAK RIDGE NATIONAL LAB., TN. ENERGY DIV.</b>	Biomonitoring for Toxics Control in NPDES Permitting, W85-07048	1812 5A	<b>OBSERVATORIO NACIONAL, RIO DE JANEIRO (BRAZIL).</b>		
Multisolute Mass Transport with Chemical Interaction Kinetics, W85-05534	1810 5B	<b>OAK RIDGE NATIONAL LAB., TN. ENVIRONMENTAL SCIENCES DIV.</b>	Factors Influencing Trace Metal, Sulfate and Hydrogen Ion Concentrations in Rain, W85-00241	1801 2K	Records of Flooding Periods in a River Mouth. Example of the Rio Paraiba do Sul (Brazil). Paleoclimatic Implications (Enregistrement des Periodes de fortes et Faibles Energies à l'embouchure d'un fleuve. Le cas du Rio Paraiba do Sul (Brésil). Implications Climatiques), W85-03810	1808 2E	
Fates of Aromatics Model (FOAM): Description, Application, and Analysis, W85-00260	1801 5B	Fates of Aromatics Model (FOAM): Description, Application, and Analysis, W85-00260	1801 5B	<b>OCCLIDENTAL CHEMICAL CORP., GRAND ISLAND, NY.</b>			
				Use of a Rapid Bioassay for Assessment of Industrial Wastewater Treatment Effectiveness, W85-05570	1810 5A	<b>OCCLIDENTAL COLL., LOS ANGELES, CA. DEPT. OF BIOLOGY.</b>	
				Effects of Dechlorinated Seawater on Fish Behavior, W85-04862	1809 5D	Effects of Dechlorinated Seawater on Fish Behavior, W85-04862	1809 5D

## ORGANIZATIONAL INDEX

### OCEANIC INST., WAIMANALO, HI.

**OCEANIC INST., WAIMANALO, HI.**  
Size Structure and Sedimentation of Biogenic Microparticulates in a Subarctic Ecosystem,  
W85-03244 1807 2J

**ODENSE UNIV. (DENMARK).**  
Decomposition and Sedimentation Processes in Oligotrophic, Subarctic Lake Thingvalla, Iceland,  
W85-01453 1803 2H

**ODENSE UNIV. (DENMARK). BIOLOGICAL INST.**  
Automatic System for Measurements in Shallow Lakes,  
W85-00874 1802 2H

**OEKOLOGISCHE STATION WALDVIERTEL, SCHREMS (AUSTRIA).**  
Biomass and Phosphorus-Content of the Macrophytes of the NE-Bay of the Lunzer Untersee (Austria) in Relation to Nutrient-Rich Inflows and to the Sediment (Biomasse und Phosphorgehalt der Makrophyten in der NO-Bucht des Lunzer Untersees (Austria) in Abhangigkeit von nahrstoffreichen Zuflussen und vom Sediment),  
W85-02527 1805 2H

**OESTERREICHISCHE AKADEMIE DER WISSENSCHAFTEN, VIENNA. INST. FUER LIMNOLOGIE.**  
Phosphate Uptake by Blue Green Algae *in vitro* and in a Lake During an Algal Bloom: Useful Application of a Force-Flow Relationship,  
W85-01015 1802 2H

Assessment of Components Controlling Phytoplankton Photosynthesis and Bacterioplankton Production in a Shallow, Alkaline, Turbid Lake (Neusiedlersee, Austria),  
W85-03125 1806 2H

Ecological Investigations on the Alluvial Sediments of the Danube in the Vienna Area - A Phreatobiological Project,  
W85-05656 1810 2J

**OFFICE DE LA RECHERCHE SCIENTIFIQUE ET TECHNIQUE OUTRE-MER, PARIS (FRANCE).**

Phytoplankton Biomass of Ebrie Lagoon (Ivory Coast) (Biomasses Phytoplanctoniques de la Lagune Ebrie (Côte d'Ivoire)),  
W85-03693 1807 2L

**OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT (USAID), WASHINGTON, DC.**  
Relating Rainfall Erosivity Factors to Soil Loss in Kenya,  
W85-02322 1805 2J

**OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC, OFFICE OF INFORMATION AND REGULATORY AFFAIRS.**  
Municipal Wastewater Treatment Cost,  
W85-03889 1808 6C

**OFFICE OF RADIATION PROGRAMS-LAS VEGAS FACILITY, NV.**  
Transport of Organic Carbon in the Atchafalaya Basin, Louisiana,  
W85-00396 1801 2H

**OFFICE OF TECHNOLOGY ASSESSMENT, WASHINGTON, DC.**  
Use of Models for Water Resources Management, Planning, and Policy,  
W85-02146 1804 6A

Protecting the Nation's Groundwater from Contamination.  
W85-05348 1810 5G

**OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER, WOOSTER.**  
Influence of Long-Term Tillage and Crop Rotation on Water Erosion,  
W85-00755 1802 5G

Matrix and Accompanying Classifications for Identifying Water Research Problems and Needs,  
W85-06246 1812 6A

**OHIO COOPERATIVE FISHERY RESEARCH UNIT, COLUMBUS.**

Responses of Fish Populations to Mitigation Structures in Two Small Channelized Streams in Ohio,  
W85-05877 1811 6G

**OHIO STATE UNIV., COLUMBUS.**  
Sediment Deposits in Drainage Ditches: A Cropland Externality,  
W85-05965 1811 2J

**OHIO STATE UNIV., COLUMBUS. COLL. OF PHARMACY.**

Bacterial Removal of Mercury from Sewage,  
W85-04114 1808 5D

**OHIO STATE UNIV., COLUMBUS. DEPT. OF AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY.**

Private and Social Cost - Benefit Perspectives and a Case Application on Reservoir Sedimentation Management,  
W85-04447 1809 4D

**OHIO STATE UNIV., COLUMBUS. DEPT. OF AGRONOMY.**

Effects of Phosphate Fertilizer Applications and Chemistry-Mineralogy of the Iron Oxide System on Phosphate Adsorption-Desorption by Stream Sediments,  
W85-01794 1804 5B

Mechanisms for Release of Sediment-Bound Phosphate to Water and the Effects of Agricultural Land Management on Fluvial Transport of Particulate and Dissolved Phosphate,  
W85-02095 1804 5B

Relation of Water Table Depth and Soil Morphology in Two Clay-Rich Soils of Northwestern Ohio,  
W85-04052 1808 2G

Factors Affecting the Volatilization of Ammonia from Land Applied Sewage Sludges,  
W85-05386 1810 5E

Accelerated Implementation Program for Reducing the Diffuse-Source Phosphorus Load to Lake Erie,  
W85-05964 1811 5G

**OHIO STATE UNIV., COLUMBUS. DEPT. OF CHEMICAL ENGINEERING.**

Mechanism of Semifluidized Bed Bioreactor for Biological Phenol Degradation,  
W85-02106 1804 5D

**OHIO STATE UNIV., COLUMBUS. DEPT. OF CIVIL ENGINEERING.**

Coagulation and Restabilization of Particulate, Macromolecular and Protected Organic Aquasols by Aluminum (III),  
W85-02105 1804 5F

Inactivation of Naegleria and Giardia Cysts in Water by Ozonation,  
W85-02580 1805 5F

Computer Animation of Storm Surge Predictions,  
W85-05784 1810 2E

Adsorption of Anionic and Cationic Metals by Non-Ionic Polymeric Resins,  
W85-06312 1812 5D

**OHIO STATE UNIV., COLUMBUS. DEPT. OF MICROBIOLOGY.**

Bacteria and Cadmium Interactions in Natural and Laboratory Model Aquatic Systems,  
W85-02206 1805 5C

**OHIO STATE UNIV., COLUMBUS. DEPT. OF PHARMACOLOGY.**

Toxicological Effects of Chlorine Dioxide, Chlorite and Chlorate,  
W85-01199 1803 5F

Assessment of Maternal Toxicity, Embryotoxicity and Teratogenic Potential of Sodium Chlorite in Sprague-Dawley Rats,  
W85-01201 1803 5F

Controlled Clinical Evaluations of Chlorine Dioxide, Chlorite and Chlorate in Man,  
W85-01205 1803 5F

**OHIO STATE UNIV., COLUMBUS. DEPT. OF ZOOLOGY.**

Trophic Ecology of Fish Rearing Ponds,  
W85-01833 1804 2H

Discovery of Permanent Amazon Lakes and Hydraulic Disturbance in the Upper Amazon Basin,  
W85-04307 1808 2H

**OHIO STATE UNIV., COLUMBUS. WATER RESOURCES CENTER.**

Inactivation of Giardia lamblia Cysts with Ozone,  
W85-02937 1806 5F

**OHIO UNIV., ATHENS. DEPT. OF GEOLOGICAL SCIENCES.**

Quantitative Model to Predict a Safe Yield for Well Fields in Kufra and Sarir Basins, Libya,  
W85-00358 1801 6B

**OKAYAMA UNIV. (JAPAN). DEPT. OF PUBLIC HEALTH.**

Organic Sulfur Compounds and Polycyclic Hydrocarbons Transferred to Oyster and Mussel from Petroleum Suspension; Identification by Gas Chromatography and Capillary Mass Chromatography,  
W85-04496 1809 5C

**OKAYAMA UNIV., KURASHIKI (JAPAN). INST. FOR AGRICULTURAL AND BIOLOGICAL SCIENCES.**

Behaviour of Trace Elements in the Takahashi River Estuary, Japan,  
W85-00186 1801 2K

Partitioning of Heavy Metals (Mn, Fe, As, Cd, Pb, Cu, Zn, Co and Ni) into Selective Chemical Fractions in Sediment Cores from Lake Biwa (in Japanese),  
W85-00527 1802 5B

Behavior of Elements in the Takahashi, Japan River Basin,  
W85-01292 1803 5B

Amounts of Suspended Solids and Elements Transported Annually from the Takahashi River (Japan) to Estuary (in Japanese),  
W85-02253 1805 2L

Influence of Anionic Surface-active Agents on the Uptake of Heavy Metals by Water Hyacinth (*Eichhornia crassipes*),  
W85-02781 1806 5C

Determination of Nitrate in Natural Waters by Flow-Injection Analysis,  
W85-03720 1807 5A

## ORGANIZATIONAL INDEX

### ONTARIO MINISTRY OF THE ENVIRONMENT, DORCHESTER. DORSET RESEARCH CENTER.

<b>OKINAWA INST. OF PHYSICACHEMICAL RESEARCH, OKINAWA CITY.</b>	
Simultaneous Preconcentration of Copper, Nickel and Cobalt in Water by Coprecipitation-Flotation for Electrothermal Atomic Absorption Spectrometry, W85-03742	1807 5A
<b>OKINAWA COOPERATIVE FISHERY RESEARCH UNIT, STILLWATER.</b>	
Evaluation of the Incremental Methodology for Recommending Instream Flows for Fishes, W85-01623	1803 6G
<b>OKLAHOMA STATE UNIV., STILLWATER. DEPT. OF AGRICULTURAL ENGINEERING.</b>	
Variability Analysis During Biological Treatability of Complex Industrial Wastewater for Design, W85-05292	1810 5D
<b>OKLAHOMA STATE UNIV., STILLWATER. DEPT. OF BIOCHEMISTRY.</b>	
Comparative Performance of Two Runoff Models on Grassland Watersheds, W85-01183	1803 2A
Soil Properties of Surface Mined Land, W85-03392	1807 2G
Sediment Detention Pond Model Using CSTRS Mixing Theory, W85-04731	1809 5E
Hydrology and Sedimentology Watershed Model. Part I: Operational Format and Hydrologic Component, W85-04735	1809 2A
Hydrology and Sedimentology Watershed Model. Part II: Sedimentology Component, W85-04736	1809 2A
Modeling Sediment Detention Ponds Using Reactor Theory and Advection-Diffusion Concepts, W85-06506	1812 2J
<b>OKLAHOMA STATE UNIV., STILLWATER. DEPT. OF BOTANY AND MICROBIOLOGY.</b>	
Determination of Microbial Cell Numbers in Subsurface Samples, W85-04636	1809 5A
<b>OKLAHOMA STATE UNIV., STILLWATER. DEPT. OF GEOLOGY.</b>	
Prediction of Economic Potential for Irrigation Using a Ground-Water Model, W85-00336	1801 4B
Analytical Methods for the Prediction of Leachate Plume Migration, W85-06831	1812 5B
<b>OKLAHOMA STATE UNIV., STILLWATER. SCHOOL OF CIVIL ENGINEERING.</b>	
Predicting Treatability of Multiple Organic Priority Pollutant Wastewaters from Single-Pollutant Treatability Studies, W85-05280	1810 5D
Aerobic Treatment of Fuel Alcohol Wastewater by Suspended Growth Activated Sludge, W85-05406	1810 5D
<b>OKLAHOMA UNIV., KINGSTON. BIOLOGICAL STATION.</b>	
Spatial and Temporal Variation in the Summer Zooplankton Community of a Riverine Reservoir, W85-01001	1802 2H
Summer Mortality of Striped Bass in Reservoirs of the United States, W85-06405	1812 6G
Depth Distribution of Striped Bass and Other Fish in Lake Texoma (Oklahoma-Texas) During Summer Stratification, W85-06408	1812 2H
<b>OKLAHOMA UNIV., NORMAN. DEPT. OF GEOGRAPHY.</b>	
Local Opposition to the Transfer of Water Supplies; An Oklahoma Case Study, W85-03138	1806 6D
Information for State Groundwater Quality Polycymaking, W85-06535	1812 6A
<b>OKLAHOMA UNIV., NORMAN. DEPT. OF ZOOLOGY.</b>	
Salinity Stresses Along a Complex River Continuum: Effects on Mayfly (Ephemeroptera) Distributions, W85-02819	1806 2H
<b>OKLAHOMA UNIV., NORMAN. ENVIRONMENTAL AND GROUND WATER INST.</b>	
Biodegradation of (14C)Phenol in Secondary Sewage and Landfill Leachate Measured by Double-Vial Radiospirometry, W85-06145	1811 5B
<b>OKLAHOMA UNIV., NORMAN. SCHOOL OF PETROLEUM AND GEOLOGICAL ENGINEERING.</b>	
Comparison of the Thermal Regimes for Freezing and Thawing of Moist Soils, W85-05806	1810 2C
<b>OKLAHOMA WATER RESOURCES BOARD, OKLAHOMA CITY.</b>	
Oklahoma's Reach to the Clouds, W85-04208	1808 3B
<b>OLD DOMINION UNIV., NORFOLK, VA. ALFRRIEND CHEMICAL LABS.</b>	
Derivatization of Organic and Inorganic N-Chloramines for High-Performance Liquid Chromatographic Analysis of Chlorinated Water, W85-02807	1806 5A
<b>OLD DOMINION UNIV., NORFOLK, VA. DEPT. OF BIOLOGICAL SCIENCES.</b>	
Algal Dynamics and Nitrogen and Phosphorus Cycling in a Cypress Stand in the Seasonally Flooded Great Dismal Swamp, W85-00983	1802 2L
Use of Polychaete Feeding Guilds as Biological Variables, W85-02763	1806 5C
<b>OLD DOMINION UNIV., NORFOLK, VA. DEPT. OF CHEMICAL SCIENCES.</b>	
Organic N-Chloramines: Chemistry and Toxicology, W85-01210	1803 5F
<b>OLD DOMINION UNIV., NORFOLK, VA. DEPT. OF CIVIL ENGINEERING.</b>	
Simulation of Runoff from Snow-Covered Hillslopes, W85-01344	1803 2E
<b>OLD DOMINION UNIV., NORFOLK, VA. DEPT. OF OCEANOGRAPHY.</b>	
Macrobenthic Communities of the Lower Chesapeake Bay. II. Lynnhaven Roads, Lynnhaven Bay, Broad Bay, and Linkhorn Bay. Benthic Studies of the Lower Chesapeake Bay 5, W85-02902	1806 2L
<b>OLDENBURG UNIV. (GERMANY, F.R.). DEPT. OF BIOLOGY.</b>	
Study of Habitat Conditions of the Macrophytic Vegetation in Selected River Systems in Western Lower Saxony (Federal Republic of Germany), W85-01887	1804 2H
<b>ONTARIO HYDRO, TORONTO.</b>	
Factors Influencing the Behaviour of De-Icing Salts in an Urban Flood Control Reservoir, W85-04584	1809 5B
<b>ONTARIO HYDRO, TORONTO. RESEARCH DIV.</b>	
Coupled Heat and Moisture Flow Through Soils, W85-03814	1808 2G
Ambient pH and Calcium Concentration as Modifiers of Growth and Calcium Dynamics of Brook Trout, <i>Salvelinus fontinalis</i> , W85-03828	1808 5C
Attraction of Fish to Mercury Vapour Light and Its Application in a Generating Station Forebay, W85-04914	1809 8I
Mortality of Zooplankton Resulting from Temperature Regimens Encountered in Once-Through Cooling Systems, W85-06862	1812 5C
<b>ONTARIO MINISTRY OF NATURAL RESOURCES, KENORA. NORTWESTERN REGION.</b>	
Decomposition of Wild Rice ( <i>Zizania aquatica</i> ) Straw in Two Natural Lakes of Northwestern Ontario, W85-01647	1804 2H
<b>ONTARIO MINISTRY OF NATURAL RESOURCES, TORONTO.</b>	
Spawning Site Water Chemistry and Lake Trout ( <i>Salvelinus namaycush</i> ) Sac Fry Survival during Spring Snowmelt, W85-00150	1801 5C
<b>ONTARIO MINISTRY OF NATURAL RESOURCES, TORONTO. OUTDOOR RECREATION GROUP.</b>	
Fisheries: Past, Present, and Future in the Great Lakes, W85-00923	1802 2H
<b>ONTARIO MINISTRY OF THE ENVIRONMENT, DORCHESTER. DORSET RESEARCH CENTER.</b>	
Relative Importance of Anthropogenic versus Natural Sources of Acidity in Lakes and Streams of Central Ontario, W85-03602	1807 5B

## ORGANIZATIONAL INDEX

### ONTARIO MINISTRY OF THE ENVIRONMENT, DORCHESTER. DORSET RESEARCH CENTER.

Elevated Planktonic Rotifer Biomass in Acidified Metal-Contaminated Lakes near Sudbury, Ontario, W85-05715	1810 5C	ORANGE COUNTY WATER DISTRICT, FOUNTAIN VALLEY, CA. Biofilm Fouling of RO Membranes - Its Nature and Effect on Treatment of Water for Reuse, W85-00712	1802 5D	OREGON STATE UNIV., CORVALLIS. DEPT. OF BOTANY AND PLANT PHYSIOLOGY. Root and Rhizome Distribution as an Indicator of Upper Salt Marsh Wetland Limits, W85-01000	1802 2L
<b>ONTARIO MINISTRY OF THE ENVIRONMENT, LONDON.</b>		<b>Biological Fouling of Reverse Osmosis Membranes,</b> W85-01977	1804 5D	<b>OREGON STATE UNIV., CORVALLIS. DEPT. OF CHEMISTRY.</b>	
Effects of Livestock Wastes and Agricultural Drainage on Water Quality: An Ontario Case Study, W85-05973	1811 5B	Water Reuse: Where Are We Headed, W85-05116	1810 5D	Influence of pH and Ionic Strength on the Aqueous-Nonaqueous Distribution of Chlorinated Phenols, W85-04803	1809 5B
<b>ONTARIO MINISTRY OF THE ENVIRONMENT, REDDALE.</b>		<b>ORANGE FREE STATE UNIV., BLOEMFONTEIN (SOUTH AFRICA). DEPT. OF BOTANY.</b>		<b>OREGON STATE UNIV., CORVALLIS. DEPT. OF CIVIL ENGINEERING.</b>	
Whole-Lake Lead Burdens in Sediments of Lakes in Southern Ontario, Canada, W85-02062	1804 5B	Particle Size Distribution and Chemical Parameters of the Sediments of a Shallow Turbid Impoundment, W85-02082	1804 2H	Copper and Cadmium Uptake by Estuarine Sedimentary Phases, W85-01122	1803 5B
Phytoplankton of Lake Simcoe During the Ice-Free Periods of 1980-82 and Potential Response to Reduced Phosphorus Loadings, W85-06860	1812 2H	Specific Ultraviolet Absorbance Band of <i>Microcystis aeruginosa</i> Toxins, W85-04816	1809 5A	Shoaling of Port of Astoria, Oregon, by Sediment from Mt. St. Helens Eruption, W85-06302	1812 2J
<b>ONTARIO MINISTRY OF THE ENVIRONMENT, REDDALE. LIMNOLOGY AND TAXONOMY SECTION.</b>		Leaf Area as Measure of Standing Crop of Floating Aquatic Macrophytes, W85-04817	1809 2H	<b>OREGON STATE UNIV., CORVALLIS. DEPT. OF FISHERIES AND WILDLIFE.</b>	
Lakewide Odours in Ontario and New Hampshire Caused by <i>Chrysosphaerulina breviturra</i> Nich. (Prymnesiophyceae), W85-01467	1803 5B	<b>ORANGE FREE STATE UNIV., BLOEMFONTEIN (SOUTH AFRICA). INST. OF ENVIRONMENTAL SCIENCES.</b>		Stream Ecosystem Theory, W85-05662	1810 2E
<b>ONTARIO MINISTRY OF THE ENVIRONMENT, REDDALE. WATER RESOURCES BRANCH.</b>		Temperature-Growth Rate Relationships of Aerobic Heterotrophic Bacteria Isolated from a Silt-laden Impoundment, W85-04815	1809 2H	Analysis of the Process of Retention of Organic Matter in Stream Ecosystems, W85-05664	1810 2J
Forms of Aqueous Aluminum in Acidified Catchments of Central Ontario: A Methodological Analysis, W85-00893	1802 5A	Phytoplankton Productivity in a Shallow Turbid Impoundment, Wuras Dam, W85-05645	1810 2H	Uptake of Dissolved Organic Carbon in Mountain Streams, W85-05665	1810 2H
Modeling the Reacidification Rates of Neutralized Lakes Near Sudbury, Ontario, W85-05319	1810 2A	Carbon Flow in a Small Turbid Man-Made Impoundment, W85-05740	1810 2H	Impact of Small-Scale Dams on Fishes of the Willamette River, Oregon and an Evaluation of Fish Habitat Models, W85-06321	1812 6G
Algal Assay Evaluation of Trace Contaminants in Surface Water Using the Nonionic Surfactant, Triton X-100, W85-06438	1812 5A	Carbon Flow in the Pelagic Zone of a Shallow Turbid Impoundment, Wuras Dam, W85-06391	1812 2H	<b>OREGON STATE UNIV., CORVALLIS. DEPT. OF FOREST SCIENCE.</b>	
<b>ONTARIO MINISTRY OF THE ENVIRONMENT, SUDBURY.</b>		<b>OREGON DUNES NATIONAL RECREATION AREA, REEDSPORT.</b>		Composition and Possible Origin of Detrital Material in Streams, W85-04827	1809 2J
Crustacean Plankton in Northeastern Ontario Lakes Subjected to Acidic Deposition, W85-02954	1806 2H	Priorities for River Recreation Management in the Southern Appalachians, W85-00545	1802 6A	<b>OREGON STATE UNIV., CORVALLIS. DEPT. OF GENERAL SCIENCE.</b>	
<b>ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO.</b>		<b>OREGON GRADUATE CENTER, BEAVERTON.</b>		Persistence and Fate of Polynuclear Aromatic Hydrocarbons Deposited on Slash Burn Sites in the Cascade Mountains and Coast Range of Oregon, W85-05109	1810 5B
Toxicity and Water Quality: A Bioassay Interpretation, W85-01162	1803 5C	Migration of Chlorophenolic Compounds at the Chemical Waste Disposal Site at Alkali Lake, Oregon - 1. Site Description and Ground-Water Flow, W85-02693	1805 5B	<b>OREGON STATE UNIV., CORVALLIS. DEPT. OF GEOGRAPHY.</b>	
Effect of Discharge Rate on Biotic and Abiotic Chemical Flux in an Acidified Stream, W85-02534	1805 5B	<b>OREGON STATE UNIV., CORVALLIS.</b>		Evolution of a Drainage Network: Remote Sensing Analysis of the North Fork Toutle River, Mount St. Helens, Washington, W85-06303	1812 2E
Persistence and Fate of 2,4-D Butoxyethanol Ester in Artificial Ponds, W85-06621	1812 5B	Linearization Techniques and Surface Operators in the Theory of Unconfined Aquifers, W85-02669	1805 2F	<b>OREGON STATE UNIV., CORVALLIS. DEPT. OF MATHEMATICS.</b>	
<b>ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO. AIR RESOURCES BRANCH.</b>		<b>OREGON STATE UNIV., CORVALLIS. COLL. OF FORESTRY.</b>		Spectral Theory of Rainfall Intensity at the Meso-beta Scale, W85-03169	1806 2B
Long-Term Precipitation Quality and Wet Deposition Fields in the Sudbury Basin, W85-03595	1807 5B	Channel Changes Following Storm-Induced Hillslope Erosion in the Upper Kowai Basin, Torlesse Range, New Zealand, W85-02554	1805 2J	<b>OREGON STATE UNIV., CORVALLIS. DEPT. OF MICROBIOLOGY.</b>	
<b>ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO. POLLUTION CONTROL BRANCH.</b>		Long-Term Changes in Channel Widths of the Kowai River, Torlesse Range, New Zealand, W85-02555	1805 2J	Legionella Incidence and Density in Potable Drinking Water Supplies, W85-00101	1801 5B
Parasites and the Land Applications of Sewage Sludge, W85-06978	1812 5D	<b>OREGON STATE UNIV., CORVALLIS. DEPT. OF ATMOSPHERIC SCIENCES.</b>		Bacterial Activity Associated with the Decomposition of Woody Substrates in a Stream Sediment, W85-00105	1801 5B
<b>ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO. WASTEWATER TREATMENT SECTION.</b>		Influence of Atmospheric Stability on Potential Evaporation, W85-01044	1802 2D	Association of Metal Tolerance with Multiple Antibiotic Resistance of Bacteria Isolated from Drinking Water, W85-02133	1804 5F
Evaluation of Wastewater Disinfection Alternatives, W85-06963	1812 5D	<b>Aeromonas sobria</b> in Chlorinated Drinking Water Supplies, W85-02187	1805 5F		

## ORGANIZATIONAL INDEX

OTTAWA UNIV. (ONTARIO). DEPT. OF CIVIL ENGINEERING.

Impact of Nitrogen and Phosphorus on (14C)-Lignocellulose Decomposition by Stream Wood Microflora, W85-07136	1812 2H	<b>OSAKA PREFECTURE FISHERIES EXPERIMENTAL STATION (JAPAN).</b>	Inorganic Nutrients Occurring in the Oxygen-deficient Bottom Water of Osaka Bay, W85-04606	1809 2K	<b>OSLO UNIV. (NORWAY). ZOOLOGICAL INST.</b>	Tropical Lakes - Functional Ecology and Future Development: The Need for a Process-Oriented Approach, W85-02408	1805 2H
Nitrogen Dynamics in Stream Wood Samples Incubated with (14C)Lignocellulose and Potassium (15N)Nitrate, W85-07137	1812 2H	<b>OSAKA PREFECTURE INST. OF PUBLIC HEALTH (JAPAN).</b>	Brominated Phenol Production from the Chlorination of Wastewater Containing Bromide Ions, W85-02776	1806 5B	<b>OSLO UNIV. (NORWAY). ZOOLOGICAL MUSEUM.</b>	Ecology of the Suldalslagen River in Western Norway before its Regulation, W85-06442	1812 2H
<b>OREGON STATE UNIV., CORVALLIS. DEPT. OF SOIL SCIENCE.</b>		<b>OSAKA UNIV. (JAPAN). DEPT. OF BIOCHEMICAL ENGINEERING.</b>	Model System of Bulking and Flocculation in Mixed Culture of <i>Sphaerotilus</i> sp. and <i>Pseudomonas</i> sp. for Dissolved Oxygen Deficiency and High Loading, W85-07115	1812 5D	<b>OSMANIA UNIV., HYDERABAD (INDIA). CENTRE OF EXPLORATION GEOPHYSICS.</b>	Compact Modified Three-Dimensional Aquifer Simulation Program for Small Computers, W85-00317	1801 2F
Chemical Partitioning of Cadmium, Copper, Nickel and Zinc in Soils and Sediments Containing High Levels of Heavy Metals, W85-01284	1803 5B	<b>OSAKA UNIV. (JAPAN). DEPT. OF CHEMICAL ENGINEERING.</b>	Separation of Aromatic Substances from Aqueous Solutions Using a Reverse Osmosis Technique with Thin, Dense Cellulose Acetate Membranes, W85-01313	1803 5D	Evaluation of Aquifer Behavior in a Typical Crystalline Basement, W85-00334		1801 2F
<b>OREGON STATE UNIV., CORVALLIS. DEPT. OF STATISTICS.</b>		<b>OSAKA UNIV. (JAPAN). DEPT. OF ENVIRONMENTAL ENGINEERING.</b>	Biological Phosphorus Release from Activated Sludge of Sludge Recycling Nitrification-Denitrification Process, W85-04253	1808 5D	<b>OSMONICS, INC., HOPKINS, MN.</b>	Crossflow Membrane Technology and its Applications, W85-05506	1810 5D
Waste Disposal Technologies for Polychlorinated Biphenyls, W85-07074	1812 5E	<b>OSAKA UNIV. (JAPAN). DEPT. OF GEOGRAPHY.</b>	Simultaneous Nitrogen and Phosphorus Removal by Anoxic-Aerobic High Sludge Concentration Activated Sludge Process, W85-04254	1808 5D	<b>OSTERREICHISCHES EUROTYPHEPROGRAMM, PROJEKT SALZKAMMERGUTSEEN, A-4852 WEYREGG, AUSTRIA.</b>	Stream Phosphorus Exports from Prealpine Watersheds with Respect to Geology and Land Use, W85-04560	1809 5B
<b>OREGON STATE UNIV., CORVALLIS. SCHOOL OF FORESTRY.</b>		<b>OSLO UNIV. (NORWAY). BIOLOGISK INST.</b>	Hydrography, Nutrients, Suspended Organic Matter, and Primary Production in a Shallow Fjord System on the West Coast of Norway, W85-05713	1810 2L	<b>OTAGO UNIV., DUNEDIN (NEW ZEALAND). DEPT. OF MICROBIOLOGY.</b>	Effect of Effluent High in Chromium on Marine Sediment Aerobic Heterotrophic Bacteria, W85-04869	1809 5C
Moving Averages and Cyclic Patterns, W85-00182	1801 2B	<b>OSLO UNIV. (NORWAY). DEPT. OF GEOFYSICS.</b>	Morphology and Sedimentology of Deltas in Fjord and Fjord Valley Lakes, W85-01054	1802 2J	<b>OTAGO UNIV., DUNEDIN (NEW ZEALAND). DEPT. OF ZOOLOGY.</b>	Invertebrates, Macroalgae, and Chemical Features in Morainic Ponds near Lakes Tekapo and Ohau, Including New Distribution Records of Crustacea, W85-03073	1806 2H
Prediction of Peak Flows for Culvert Design on Small Watersheds in Oregon, W85-01820	1804 4A	<b>OSLO UNIV. (NORWAY). DEPT. OF LIMNOLOGY.</b>	Evaluation of Acidification Based on Former Colorimetric Determination of pH: The Effect of Indicators on pH in Poorly Buffered Water, W85-04530	1809 5A	Preliminary Investigation on Effects of Fluctuating Flows on Invertebrates of the Hawea River, a Large Regulated River in New Zealand, W85-04668		1809 2H
<b>OREGON STATE UNIV., CORVALLIS. SCHOOL OF OCEANOGRAPHY.</b>		<b>OSLO UNIV. (NORWAY). INST. FOR KJEMI.</b>	Particle Discrimination Effects in the Determination of Trace Metals in Natural Fresh Waters, W85-06252	1812 5A	<b>OTT WATER ENGINEERS, ANCHORAGE, AK.</b>	Status of Sanitation Facilities in Alaska - 1982, W85-04915	1809 6B
Effects of Physical Phenomena on the Distribution of Nutrients and Phytoplankton Productivity in a Coastal Lagoon, W85-00652	1802 2L	<b>OSLO UNIV. (NORWAY). INST. OF GEOPHYSICS.</b>	Hydrological Regionalization of Sweden, W85-05904	1811 2A	<b>OTTAWA UNIV. (ONTARIO). DEPT. OF BIOLOGY.</b>	Long-Term Effects of Arsenic Accumulation in Rainbow Trout, <i>Salmo gairdneri</i> , W85-00884	1802 5C
Vertical Distribution of Suspended Particulate Matter in the Zaire River, Estuary and Plume, W85-03675	1807 2L	<b>OSLO UNIV. (NORWAY). INST. OF MARINE BIOLOGY.</b>	Effects of Pollutants on Marine Ecosystems, W85-01626	1803 5C	Effect of Chlorination on Antibiotic Resistance Profiles of Sewage-Related Bacteria, W85-02139		1804 5D
Radium Variability Produced by Shelf-water Transport and Mixing in the Western Gulf of Mexico, W85-04712	1809 2K	<b>OSLO UNIV. (NORWAY). INST. OF POLLUTION CONTROL CENTER (JAPAN).</b>	Changes in the Sublittoral Hard Bottom Benthos after a Large Reduction in Pulp Mill Waste to Iddefjord, Norway, Sweden, W85-01629	1803 5C	Wave Disturbance on Lakeshores and the Within-Lake Distribution of Ontario's Atlantic Coastal Plain Flora, W85-06518		1812 2H
Trace Metals in the Columbia River Estuary Following the 18 May 1980 Eruption of Mount St. Helens, W85-05056	1810 5B	Application of a Combined Chemical-Biological Treatment to High-Strength Wastewater, W85-00172	Effects of Pollutants on Marine Ecosystems, W85-01626	1803 5C	<b>OTTAWA UNIV. (ONTARIO). DEPT. OF CIVIL ENGINEERING.</b>	Water and Health in Africa, W85-03026	1806 5G
<b>OREGON STATE UNIV., NEWPORT. MARINE SCIENCE CENTER.</b>		Metals and Synthetic Organic Compounds in Plankton from the Estuary and Harbor Area in Osaka City, W85-04607	Changes in the Sublittoral Hard Bottom Benthos after a Large Reduction in Pulp Mill Waste to Iddefjord, Norway, Sweden, W85-01629	1803 5C	Stream-Bed Armouring under Known Conditions of Upstream Sediment Input, W85-03197		1806 2J
Sublethal Effects of Oiled Sediment on the Sand Worm, <i>Nereis</i> ( <i>Neanthes</i> ) <i>virens</i> : Induced Changes in Burrowing and Emergence, W85-04871	1809 5C	<b>OSAKA CITY INST. OF PUBLIC HEALTH AND ENVIRONMENTAL SCIENCES (JAPAN).</b>	Relationship between Fish Populations and pH for Lakes in Southermost Norway, W85-00550	1802 5C			
<b>OREGON UNIV., EUGENE. DEPT. OF BIOLOGY.</b>		Seasonal Variation of Arsenic Concentration in Well Water in Lane County, Oregon, W85-02414					
Seasonal Variation of Arsenic Concentration in Well Water in Lane County, Oregon, W85-02414	1805 5B	<b>ORSZAGOS KOZEGESZEGUGYI INTEZET, BUDAPEST (HUNGARY).</b>					
Toxicological Investigation and Evaluation of Drinking-Water Pollution Caused by Chemical Wastes, W85-02696	1806 5F	Application of a Combined Chemical-Biological Treatment to High-Strength Wastewater, W85-00172					
<b>OSAKA PREFECTURE ENVIRONMENTAL POLLUTION CONTROL CENTER (JAPAN).</b>		Metals and Synthetic Organic Compounds in Plankton from the Estuary and Harbor Area in Osaka City, W85-04607					
Trace Determination of Aldehydes in Water by High-Performance Liquid Chromatography, W85-04622	1809 5A	Application of a Combined Chemical-Biological Treatment to High-Strength Wastewater, W85-00172					

## ORGANIZATIONAL INDEX

### OTTAWA UNIV. (ONTARIO). DEPT. OF CIVIL ENGINEERING.

Analysis and Computerized Model of the Automatic Hydraulic Ram Pump, W85-05456	1810 8C	Changes in the Extractabilities of the Heavy Metals in Water-Logged Sludge-Treated Soils, W85-04514	1809 5E	<b>PAPE-DAWSON, SAN ANTONIO, TX.</b>
Effect of Influent Concentration on the Startup of an Anaerobic Downflow Stationary Fixed Film (DSFF) Reactors, W85-05549	1810 5D	OXY-TECH, INC., BERKELEY, CA. Electrochemical Generation of High-Concentration Ozone for Waste Treatment, W85-05771	1810 5D	Sanitary Significance of Increases in Fecal Coliform Counts Across a Catfish Aquaculture System, W85-05228
<b>OTTAWA UNIV. (ONTARIO). DEPT. OF GEOLOGY.</b>		<b>OZTURGUT OCEANOGRAPHICS, SEATTLE, WA.</b>		1810 5C
Groundwater Hydraulics of Seasonal Frost Mounds, North Fork Pass, Yukon Territory, W85-03198	1806 2C	New Method of Wet Density and Settling Velocity Determination for Wastewater Effluent, W85-03666	1807 5A	<b>PAPUA NEW GUINEA UNIV. OF TECHNOLOGY, LAE. DEPT. OF ELECTRICAL AND COMMUNICATION ENGINEERING.</b>
<b>OTTAWA UNIV. (ONTARIO). DEPT. OF GEOLOGY.</b>		<b>PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, CORVALLIS, OR. FORESTRY SCIENCES LAB.</b>		Morobe's Micro Hydro: Reality and Potential, W85-03325
Sedimentation in Fluvial and Lacustrine Environments, W85-02057	1804 2J	Importance of Streamside Forests to Large Rivers: The Isolation of the Willamette River, Oregon, U.S.A., from its Floodplain by Snagging and Streamside Forest Removal, W85-05663	1810 6G	1807 6B
<b>OTTAWA UNIV. (ONTARIO). DEPT. OF MICROBIOLOGY AND IMMUNOLOGY.</b>		<b>PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, WENTACHEE, WA.</b>		<b>PARACELUS-FORSCHUNGSIINSTITUT, SALZBURG (AUSTRIA).</b>
Rotavirus Survival in Conventionally Treated Drinking Water, W85-00897	1802 5A	Effects of Cold Soil on Water Relations and Spring Growth of Douglas-fir Seedlings, W85-03128	1806 2I	Effect of Sewage Removal on Lake Water Quality (Fuschlsee, Salzburg, Austria), W85-20525
Long-Term Survival of Human Rotavirus in Raw and Treated River Water, W85-06137	1811 5B	<b>PACK (DONALD H.), MCLEAN, VA.</b>		1805 5C
<b>OUUL UNIV. (FINLAND). DEPT. OF ASTRONOMY.</b>		Precipitation Chemistry Probability - The Shape of Things to Come, W85-00239	1801 2K	<b>PARIS-7 UNIV. (FRANCE). LAB D'ECOLOGIE GENERALE ET APPLIQUEE.</b>
Landsat Classification of the Hydrolittoral Areas of the Bay of Liminka (Gulf of Bothnia, Finland), W85-03491	1807 7B	Conceptual Model of Unit-Mass Response Function for Nonpoint Source Pollutant Runoff, W85-05872	1811 5B	Application of Fundamental Studies on the Improvement of Drought Resistance of Plants (Applications des Etudes Fondamentales a L'Amelioration de Plantes Resistantes a la Secheresse), W85-02335
Application of Landsat Satellite Data for Mapping Aquatic Areas in North-Eastern Finland, W85-06805	1812 7B	<b>PADUA UNIV. (ITALY). FACULTY OF ENGINEERING.</b>		1805 2I
<b>OUUL UNIV. (FINLAND). DEPT. OF GEOLOGY.</b>		Conceptual Model of Unit-Mass Response Function for Nonpoint Source Pollutant Runoff, W85-05872	1811 5B	<b>PARMA UNIV. (ITALY). IST. DI ECOLOGIA.</b>
Lake Water Geochemistry of Two Geologically Contrasted Areas in Kuusamo, North-Eastern Finland, W85-05066	1810 2H	<b>PADUA UNIV. (ITALY). INST. OF APPLIED MATHEMATICS.</b>		Nutrient Budget of Lake Bostalsee (Saarland) with Particular Reference to Phosphorus and Nitrogen (Der Nahrstoffhaushalt des Bostalsees (Saarland) unter besonderer Berücksichtigung des Phosphors und Stickstoffs), W85-00629
Role of Ground Frost, Snow Cover, Ice Break-up and Flooding in the Fluvial Processes of the Oulanka River, NE Finland, W85-06806	1812 2J	Groundwater Response under an Electronuclear Plant to a River Flood Wave Analyzed by a Nonlinear Finite Element Model, W85-02157	1804 2F	1802 5G
<b>OUUL UNIV. (FINLAND). OULANKA BIOLOGICAL STATION.</b>		<b>PADUA UNIV. (ITALY). IST. DI BIOLOGIA ANIMALE.</b>		<b>PATTERSON (J.W.) AND ASSOCIATES, INC., DENVER, CO.</b>
Primary Production of Phytoplankton in the Oligohumic Kitka Lakes in Northern Finland, W85-03680	1807 2H	Chemical and Physical Characteristics of the Waters of the Adige River and Its Greatest Tributaries, Running through the Verona's Area (Indagine Preliminare Sulle Caratteristiche Fisiche e Chimiche del Tratto Veronese Dell'Adige e Dei Suoi Affluenti a Regime Perenne), W85-02502	1805 5B	Minimum Flow Protection in Riparian States, W85-06028
<b>OWENS (F.W.) AND ASSOCIATES, INC., LOUISVILLE, KY.</b>		<b>PADUA UNIV. (ITALY). IST. DI IDRAULICA.</b>		1811 6E
Streambank Stability, W85-07082	1812 2J	Capacity and Type of Units for Small Run-off-River Plants, W85-03327	1807 8A	<b>PATUXENT WILDLIFE RESEARCH CENTER, LAUREL, MD.</b>
<b>OXFORD UNIV. (ENGLAND). DEPT. OF AGRICULTURAL SCIENCE.</b>		<b>PAKISTAN FOREST INST., PESHAWAR.</b>		Bird Use and Heavy Metal Accumulation in Waterbirds at Dredge Disposal Impoundments, Corpus Christi, Texas, W85-04480
Modeling Water Flow through Undisturbed Soil Cores Using a Transfer Function Model Derived from 3HOH and Cl transport, W85-01326	1803 2G	Management of River and Reservoir Sedimentation in Pakistan, W85-06544	1812 4D	1809 5B
<b>OXFORD UNIV. (ENGLAND). DEPT. OF AGRICULTURE.</b>		<b>PALACKY UNIV., OLOMOUC (CZECHOSLOVAKIA). DEPT. OF ANALYTICAL AND ORGANIC CHEMISTRY.</b>		High PCB Residues in Birds from the Sheboygan River, Wisconsin, W85-06288
Availability to Plants of Phosphate in Sludges Precipitated from the Effluent from Sewage Treatment, W85-04597	1809 5E	Isotachophoresis of Cationic Herbicides in Waters and Soils, W85-05911	1811 5A	1812 5C
<b>OXFORD UNIV. (ENGLAND). SOIL SCIENCE LAB.</b>		<b>PALMA DE MALLORCA UNIV. (SPAIN). FACULTAD DE CIENCIAS.</b>		<b>PAU UNIV. (FRANCE). LAB. DE CHIMIE ANALYTIQUE.</b>
Diffusion of Urea, Ammonium and Soil Alkalinity from Surface Applied Urea, W85-04249	1808 2K	Composition and Dynamics of Phytoplankton in the Cuber Reservoir, Spain, W85-05639	1810 2H	Trace Determination of Inorganic and Organic Tin in Water by Hydride Atomic Absorption Spectrometry (Dosage de l'étain Mineral et Organique en Traces dans les eaux par Spectrophotométrie d'absorption Atomique avec Génération-Decomposition d'hydrides), W85-04000
<b>OR-104</b>		Seasonal Variations in the Vertical Distribution of Oscillatoria rubescens D.C. in the Gorg Blau Reservoir, Spain, W85-05640	1810 2H	1808 5A
<b>PENNNSYLVANIA DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG. BUREAU OF WATER QUALITY MANAGEMENT.</b>		<b>PENNSYLVANIA POWER AND LIGHT CO., ALLENTEWN. ENVIRONMENTAL MANAGEMENT DIV.</b>		<b>PENNSYLVANIA DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG. BUREAU OF WATER QUALITY MANAGEMENT.</b>
Water Quality Impacts of Chlorinating Paper-mill Effluents, W85-07047	1812 5D	Investigations at Sites Contaminated with Dense, Non-Aqueous Phase Liquids (NAPLS), W85-06832	1812 5B	Water Quality Impacts of Chlorinating Paper-mill Effluents, W85-07047

## ORGANIZATIONAL INDEX

**PITEAU (D.R.) AND ASSOCIATES LTD., VANCOUVER (BRITISH COLUMBIA).**

<b>PENNSYLVANIA POWER AND LIGHT CO., YORK HAVEN, PA. BRUNNER ISLAND AQUACULTURE PROJECT.</b>			
Sub-Surface Water Sampler for Lake, Pond and River Studies, W85-04086	1808	7B	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK.</b>			
Optimization of Secondary Cooling Water Filtration in a Continuous Stainless Steel Casting Process, W85-05285	1810	5D	
Best Management Practices for Controlling Nonpoint-Source Pollution on Forested Watersheds, W85-05971	1811	5G	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. DEPT. OF AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY.</b>			
Importance of Sample Discrimination in Using the Travel Cost Method to Estimate the Benefits of Improved Water Quality, W85-04753	1809	6B	
Agricultural Nonpoint Pollution Control: Voluntary or Mandatory, W85-05961	1811	5G	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. DEPT. OF AGRICULTURAL ENGINEERING.</b>			
Sediment Retention Efficiency of Synthetic Filter Fabrics, W85-01189	1803	2J	
Effect of Soil Air Entrapment on Erosion, W85-03369	1807	4D	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. DEPT. OF BIOLOGY.</b>			
Field and Laboratory Studies of Ion Balance and Growth Rates of Rand Tadpoles Chronically Exposed to Low pH, W85-06859	1812	5C	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. DEPT. OF CIVIL ENGINEERING.</b>			
Karst Landforms and Drainage Basin Evolution in the Obey River Basin, North-Central Tennessee, U.S.A., W85-00005	1801	2F	
Irrigation in Humid Areas: Net Benefits, W85-01576	1803	2G	
Concurrent Denitrification and Oxygen Uptake in Microbial Films, W85-06226	1812	2K	
Mathematical Analysis of Oxygen and Nitrate Consumption in Deep Microbial Films, W85-06227	1812	2H	
Polyelectrolyte Selection for Water Treatment, W85-06587	1812	5F	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. DEPT. OF GEOSCIENCES.</b>			
Chemical Kinetics of Water-Rock Interactions, W85-00722	1802	2K	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. DEPT. OF METEOROLOGY.</b>			
Analysis of Precipitation Collected on a Sequential Basis, W85-04505	1809	5B	
Wet Deposition Monitoring - Effect of Sampling Period, W85-05773	1810	5A	
Regional-Scale Estimates of Surface Moisture Availability from GOES Infrared Satellite Measurements, W85-06188	1812	7B	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. DEPT. OF MICROBIOLOGY, CELL BIOLOGY, BIOCHEMISTRY AND BIOPHYSICS.</b>			
Detection of Industrial Pollutants and Toxic Chemical Wastes in Sewage Treatment Plant Influents by Use of a Biological Monitor, W85-00107	1801	5D	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. DEPT. OF MINING ENGINEERING.</b>			
Modeling Fluid Flow in Selective Placement of Toxic Mine Spoil, W85-06839	1812	5B	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. INST. FOR RESEARCH ON LAND AND WATER RESOURCES.</b>			
Restoration of Failing On-Site Wastewater Disposal Systems Using Water Conservation, W85-01656	1804	5D	
Laboratory Investigation of Leachate Chemistry from Six Appalachian Forest Floor Types Subjected to Simulated Acid Rain, W85-06721	1812	2K	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. PESTICIDE RESEARCH LAB.</b>			
National Survey of Elements and Other Constituents in Municipal Sewage Sludges, W85-02192	1805	5E	
<b>PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. SCHOOL OF FOREST RESOURCES.</b>			
In-Situ Bioassays of Fish Mortality in Two Pennsylvania Streams Acidified by Atmospheric Deposition, W85-00205	1801	5C	
Thermal Alteration of Streams Draining Clear-cut Watersheds: Quantification and Biological Implications, W85-00421	1801	5C	
Effects of Salinity on Preferred and Lethal Temperatures of the Blackchin Tilapia, Sarotherodon melanotheron, W85-03143	1806	2L	
Causes of Acidification of Four Streams on Laurel Hill in Southwestern Pennsylvania, W85-03861	1808	5B	
<b>PENNSYLVANIA UNIV., PHILADELPHIA.</b>			
Spruce Decline in the Northern Appalachians: Evaluating Acid Deposition as a Possible Cause, W85-04236	1808	5A	
<b>PERMEABILITY, INC., ORINDA, CA.</b>			
Application of Telemetry to Large-Scale Horizontal Anisotropic Permeability Determinations by Surface Tiltmeter Survey, W85-03184	1806	7B	
<b>PERUGIA UNIV. (ITALY). CATTEDERA DI IGIENE.</b>			
Mutagenicity of Coal Tar Paints Used in Drinking Water Distribution Systems, W85-03659	1807	8G	
Bacteriological and Chemical Variations and Their Inter-relationships in a Slightly Polluted Water-Body, W85-04034	1808	5A	
<b>PERUGIA UNIV. (ITALY). IST. DI IDROBIOLOGIA E PESCHICOLTURA.</b>			
Determination of the Trophic State of Lake Trasimeno by Indirect Analysis of Nitrogen and Phosphorus (Determinazione Dello Stato Trofico Del Lago Trasimeno Attraverso La Valutazione Indiretta Dell'Azoto E Del Fosforo), W85-02497	1805	5C	
Hydrobiological Research on Two Small Brackish Lakes in Portonovo; I: Lake Profondo (Ricerca Idrobiologiche Su Due Laghetti Di Portonovo; Parte I: Lago Profondo), W85-02499	1805	5C	
Hydrobiological Research on Two Small Brackish Lakes in Portonovo; II: Lake Grande (Ricerca Idrobiologiche Su Due Laghetti Di Portonovo; Parte II: Lago Grande), W85-02500	1805	5C	
<b>PETROGLYPH RESEARCH ASSOCIATES, CHILLIWACK (BRITISH COLUMBIA).</b>			
Study of Residential Stormwater Impoundments: Perceptions and Policy Implications, W85-06242	1812	4A	
<b>PETROLEUM REFINERY POINT SOURCE TASK FORCE, WINDSOR (ONTARIO).</b>			
Review of the Pollution Abatement Programs Relating to the Petroleum Refinery Industry in the Great Lakes Basin, W85-04228	1808	5E	
<b>PHILIPPINES UNIV. AT LOS BANOS.</b>			
Drainage of a Tropaqueal before and after Water Extraction by a Crop, W85-00754	1802	2G	
<b>PHYSICAL RESEARCH LAB., AHMEDABAD (INDIA).</b>			
Soil Moisture Transport Through the Unsaturated Zone: Tritium Tagging Studies in Sabarmati Basin, Western India, W85-01136	1803	2F	
Composition of Mineral Fractions of the Narmada and Tapti Estuarine Particles and the Adjacent Arabian Sea Sediments off Western India, W85-04373	1808	2L	
Analysis of Steady-State Flow in Semiconfined Aquifers: A New Approach, W85-05844	1810	2F	
<b>PIMA COUNTY DEPT. OF WASTEWATER MANAGEMENT, TUCSON, AZ.</b>			
Catalytic Oxidation of Munitions Wastewater, W85-05423	1810	5D	
<b>PIPE AND CANAL SERVICES A.G., ZUMIKON (SWITZERLAND).</b>			
Economizing the Diameter of Tunnels, W85-04413	1809	8A	
<b>PIRA, LEATHERHEAD (ENGLAND).</b>			
Characteristics of Paper/Board Mill Wastewaters Relevant to Anaerobic Treatment, W85-07002	1812	5D	
<b>PIRNIE (MALCOLM), INC., NEWPORT NEWS, VA.</b>			
Pump Station Design: The Benefits of Computer Modeling, W85-01905	1804	8C	
Alum Production from Aluminum Etching Wastes, W85-05237	1810	5D	
<b>PIRNIE (MALCOLM), INC., WHITE PLAINS, NY.</b>			
Privatization Needs the Professional Approach, W85-04954	1809	6A	
<b>PISA UNIV. (ITALY). IST. DI CHIMICA ANALITICA.</b>			
Electrochemical Speciation and Determination of Organometallic Species in Natural Waters, W85-02309	1805	5A	
<b>PITEAU (D.R.) AND ASSOCIATES LTD., VANCOUVER (BRITISH COLUMBIA).</b>			
Remedial Measures for Debris Flows at the Agassiz Mountain Institution, British Columbia, W85-03426	1807	2J	

## ORGANIZATIONAL INDEX

### PITOMETER ASSOCIATES, CHICAGO, IL.

**PITOMETER ASSOCIATES, CHICAGO, IL.**  
Demand Reduction: Water Conservation Through Leak Detection, W85-04691 1809 3D

**PITTSBURGH UNIV., PA. DEPT. OF BIOLOGICAL SCIENCES.**  
Internal Phosphorus Loading to Shallow Edinboro Lake in Northwestern Pennsylvania, W85-06006 1811 2H

**PITTSBURGH UNIV., PA. DEPT. OF BIOSTATISTICS.**  
Critical Review of Epidemiologic Studies Related to Ingested Asbestos, W85-02704 1806 5C

**PITTSBURGH UNIV., PA. DEPT. OF CIVIL ENGINEERING.**  
Rainfall Energy From Drop Size Data, W85-01696 1804 2B

Ecological Study of Activated Sludge Settling Property in the Completely Mixed System, W85-04301 1808 5D

**PITTSBURGH UNIV., PA. DEPT. OF ECONOMICS.**  
Measuring the Site-Specific Recreation Benefits Resulting From Improved Water Quality: An Upper Bound Approach, W85-05000 1810 6A

**PITTSBURGH UNIV., PA. GRADUATE SCHOOL OF PUBLIC HEALTH.**  
Organic Water Quality and Other Factors in Poultry Plant Wastewater Renovation and Reuse, W85-00557 1802 5D

Effect of Temperature, pH, and Oxygen Level on the Multiplication of Naturally Occurring *Legionella pneumophila* in Potable Water, W85-07128 1812 5B

**PLYMOUTH POLYTECHNIC (ENGLAND). DEPT. OF ENVIRONMENTAL SCIENCES.**  
Groundwater Chemistry Change Due to Tidal Fluctuations in the Stonehouse Brewery Well, Plymouth, England, W85-06516 1812 2F

**PLYMOUTH POLYTECHNIC (ENGLAND). GEOLOGY DIV.**  
Alluvial Fan Sedimentation of the Horseshoe Park Flood, Colorado, U.S.A., July 15th, 1982, W85-01052 1802 2J

Facies Model for a Sandy Ephemeral Stream and Clay Playa Complex: The Middle Devonian Trentishoe Formation of North Devon, U.K., W85-03215 1806 2J

**PLYMOUTH POLYTECHNIC (ENGLAND). JOHN GRAYMORE CHEMICAL LAB.**  
High-Performance Liquid Chromatography with Hydride Generation/Atomic Absorption Spectrometry for the Determination of Arsenic Species with Application to Some Water Samples, W85-07162 1812 5A

**POITIERS UNIV. (FRANCE). LAB. DE CHIMIE DE L'EAU ET DES NUISANCES.**

Mode of Action of Chlorine Dioxide on Organic Compounds in an Aqueous Medium; Chlorine Dioxide Consumption and Reactions on Phenolic Compounds (Mode d'Action du Bdioxyde de Chlore sur les Composes Organiques en Milieu Aquueux; Consommations de Bdioxyde de Chlore et Reactions sur les Composes Phenoliques), W85-04302 1808 5F

**POLISH ACADEMY OF SCIENCES, GDANSK. INST. BUDOWNICTWA WODNEGO.**  
Biological Protection of Impermeable Fly-ash Layers, W85-01447 1803 5G

**POLISH ACADEMY OF SCIENCES, KRAKOW. ZAKLAD OCHRONY PRZYRODY I ZASOBOW NATURALNYCH.**  
Effect of Suspended Materials on Zooplankton, 2. Laboratory Investigations of *Daphnia hyalina* Leydig, W85-02511 1805 5C

Stream Ecosystems in Mountain Grassland (West Carpathians); 1. Introduction and Description of the Investigated Area, W85-02512 1805 6G

Stream Ecosystems in Mountain Grassland (West Carpathians); 3. Chemical Composition of Water, W85-02514 1805 2K

Stream Ecosystems in Mountain Grassland (West Carpathians); 4. Heavy Metals, W85-02515 1805 5B

Stream Ecosystems in Mountain Grassland (West Carpathians); 5. Bacteria, W85-02516 1805 5B

Stream Ecosystems in Mountain Grassland (West Carpathians); 6. Sessile Algae Communities, W85-02517 1805 5B

Stream Ecosystems in Mountain Grassland (West Carpathians); 7. Ciliata, W85-02518 1805 5G

Stream Ecosystems in Mountain Grassland (West Carpathians); 8. Benthic Invertebrates, W85-02519 1805 5G

Stream Ecosystems in Mountain Grassland (West Carpathians); 9. Oligochaeta, W85-02520 1805 5B

Stream Ecosystems in Mountain Grassland (West Carpathians); 12. General Conclusion, W85-02521 1805 5B

Epipelagic Algae in Marginal Parts of the Przeczyce Reservoir and of Neighboring Sectors of the River Czarna Przemsza (Upper Silesia); 1. Algae in Constantly Submerged Zone, W85-02522 1805 2H

Snow Pollution and Its Effect on Heavy Metals Load of the Kozlowa Gora Reservoir as Compared to Rain and River Water, W85-04611 1809 5B

**POLISH ACADEMY OF SCIENCES, KRAKOW. ZAKLAD OCHRONY PRZYRODY I ZASOBOW NATURALNYCH.**  
Zonation of Mayflies (Ephemeroptera) in Several Streams of the Tatra Mts and the Podhale Region, W85-00229 1801 2H

Composition and Zonation of Benthic Invertebrate Communities in Some Chemically Stressed Aquatic Habitats of Niepolomice Forest (South Poland), W85-00233 1801 5C

**POLISH ACADEMY OF SCIENCES, LOMIANKI. INST. OF ECOLOGY.**

Biotic Structure and Processes in the Lake System of R. Jorka Watershed (Masurian Lakeland, Poland), I. Land Impact, Loading and Dynamics of Nutrients, W85-00902 1802 2H

Biotic Structure and Processes in the Lake System of R. Jorka Watershed (Masurian Lakeland, Poland), II. Physical and Chemical Properties of Water and Sediments, W85-00903 1802 2H

Biotic Structure and Processes in the Lake System of R. Jorka Watershed (Masurian Lakeland, Poland), XII. Productivity, Structure and Dynamics of Lake Biota (A Synthesis of Research), W85-00904 1802 2H

External and Internal Loading and Retention of Phosphorus in the R. Jorka Lakes (Masurian Lakeland, Poland) vs Their Trophic Status, W85-04556 1809 2H

Role of Bivalves in the Phosphorus and Nitrogen Budget in Lakes, W85-04558 1809 2H

**POLISH ACADEMY OF SCIENCES, POZNAN. DEPT. OF AGROBIOLOGY AND FORESTRY.**  
Quantitative Investigations on Odonata, Heteroptera and Coleoptera in a Drainage Channel near the Village of Turew (Poznan Region), W85-02523 1805 5B

Density and Biomass of Benthic Chironomidae (Diptera) in a Lake and Melioration Channel, Situated in Agricultural Landscape, W85-06857 1812 2H

**POLISH ACADEMY OF SCIENCES, TUREW. DEPT. OF AGROBIOLOGY.**  
Changes of Phytoplankton Biomass and Production in a Field Lake and Draining Channel, W85-06856 1812 2H

**POLISH ACADEMY OF SCIENCES, WARSAW. INST. OF COMPUTER SCIENCES.**  
Graphical Technique for River Water Temperature Predictions, W85-01117 1802 2H

**POLISH ACADEMY OF SCIENCES, ZABRZE. INST. OF ENVIRONMENTAL ENGINEERING.**  
Denitrification by Packed Bed Reactors in the Presence of Chromium(VI); Resistance to Inhibition, W85-07118 1812 5D

Inhibition Coefficient ( $K_i$ ) Determination in Activated Sludge, W85-07125 1812 5D

**POLITECHNIKA SLASKA, GLIWICE (POLAND).**  
Dependence of Phytoplankton on Zooplankton in a Man-Made Lake, W85-05636 1810 2H

**POLITECNICO DI MILANO (ITALY). IST. DI INGEGNERIA SANITARIA.**  
Model for Autothermic Aerobic Digestion, Effects of Scale Depending on Aeration Efficiency and Sludge Concentration, W85-06731 1812 5D

**POONA UNIV. (INDIA). DEPT. OF ZOOLOGY.**  
Sensitivity of Toad Larvae to 2,4-D and Endosulfan Pesticides, W85-01369 1803 5C

**PORT ELIZABETH MUSEUM, HUMEWOOD (SOUTH AFRICA).**  
South African Estuaries and Their Importance to Fishes, W85-02837 1806 2L

**PORT ELIZABETH UNIV. (SOUTH AFRICA). DEPT. OF ZOOLOGY.**  
Rapid Assessment of Effluent Toxicities Using *E. coli* as a Bioindicator, W85-04347 1808 5A

**PORT ELIZABETH UNIV. (SOUTH AFRICA). DEPT. OF GEOLOGY.**  
Management Proposals to Counter Undesirable Sediment Accumulation in the Keurbooms Estuary, W85-01180 1803 4D

## ORGANIZATIONAL INDEX

**PURDUE UNIV., LAFAYETTE, IN. DEPT. OF AGRONOMY.**

<b>PORT OF LONG BEACH, CA.</b> Port Solves Environmental Problems, W85-06176	1812 5C	Flow to a Partially Penetrating Well in a Double-Porosity Reservoir, W85-02367	1805 2F	<b>PUERTO RICO UNIV., RIO PIEDRAS, DEPT. OF BIOLOGY.</b> Effect of Effluent from a Nitrogen Fertilizer Factory and a Pulp Mill on the Distribution and Abundance of Aeromonas hydrophila in Alber- marle Sound, North Carolina, W85-00096	1801 5C
<b>PORTLAND STATE UNIV., OR. DEPT. OF CIVIL ENGINEERING.</b> Stochastic Streamflow Model Based on Physical Principles, W85-06508	1812 2A	Exposition of the Distribution Function Used in Proving the Averaging Theorems for Multi- phase Flow, W85-04169	1808 2F	<b>PULP AND PAPER RESEARCH INST. OF CANADA, POINTE CLAIRE (QUEBEC).</b> Chlorinated Phenolics of Bleached Kraft Mill Origin; An Olfactory Evaluation, W85-00559	1802 5A
<b>POST, BUCKLEY, SCHUH AND JERNIGAN, INC., TAMPA, FL.</b> Two-Dimensional Flood Routing on Steep Slopes, W85-02267	1805 6F	Finite Element-Finite Difference Alternating Direction Algorithm for Three-Dimensional Groundwater Transport, W85-04170	1808 2F	Neutral Organic Compounds in Biologically Treated Bleached Kraft Mill Effluents, W85-03665	1807 5D
<b>POWER AND WATER SYSTEMS CONSULTANTS, OXON (ENGLAND).</b> Integrated Planning System for Hydro Develop- ment in Ecuador, W85-04780	1809 6A	Stability of the Green-Ampt Profile in a Delta Function Soil, W85-05804	1810 2G	<b>PUNJAB AGRICULTURAL UNIV., LUDHIANA (INDIA). DEPT. OF AGRONOMY.</b> Numerical Analysis of Irrigation Treatments of Barley with Respect to Drainage Losses and Crop Response, W85-06091	1811 3F
<b>POZNAN TECHNICAL UNIV. (POLAND). INST. OF ENVIRONMENTAL ENGINEERING.</b> Submerged Discharge Relations of Logarithmic Weirs, W85-00733	1802 8B	Achieving Wastewater Compliance with Re- duced Grant Support, W85-02582	1805 5D	<b>PUNJAB AGRICULTURAL UNIV., LUDHIANA (INDIA). DEPT. OF SOILS.</b> Effect of Sodium and Bicarbonate Irrigation Waters on Sodium Accumulation and on Maize and Wheat Yields in Northern India, W85-05921	1811 2I
Modeling of Flow Velocity Using Weirs, W85-04396	1808 8B	Design, Start-Up, and Operation of an Ozone Disinfection Unit, W85-03866	1808 5D	Reaction of Fertilizer and Liquid Manure Phos- phorus with Soil Aggregates and Sediment Phosphorus Enrichment, W85-06722	1812 5E
<b>PRESIDENCY COLL., MADRAS (INDIA). DEPT. OF ZOOLOGY.</b> Effect of Phenol on the Phosphomonoestersases and ATPase Activity in the Fish Sarotherodon Mossambicus (Peters) in Saline Waters, W85-06425	1812 5C	Ozone Disinfection Design and Operation Con- siderations, W85-05827	1810 5D	<b>PUNJAB ENGINEERING COLL., CHANDIGARH (INDIA).</b> New Approach for Analysis of Aquifer-Test Data, W85-03820	1808 2F
<b>PRETORIA UNIV. (SOUTH AFRICA). DEPT. OF AGRICULTURAL ENGINEERING.</b> Convert the Brook on Your Farm to Electric Current, W85-04813	1809 8C	Summer Plankton Dynamics in Acton Lake, Ohio, W85-00811	1802 2H	<b>PUNJABI UNIV., PATIALA (INDIA). DEPT. OF ZOOLOGY.</b> Short Term Effects of Aldrin and Swascofix CD-38 on the Feeding and Respiratory Behav- iors of Clarias batrachus and Cirrhina mrigala, W85-06269	1812 5C
<b>PRINCE WILLIAM COUNTY SERVICE AUTHORITY, WOODBRIDGE, VA.</b> Common Denominator: Equivalent Residential Units, W85-03616	1807 6C	<b>PROGRAMME INTERDISCIPLINAIRE DE RECHERCHE SUR L'ENVIRONNEMENT - PR2 RHONE.</b> Macroinvertebrates as 'Describers' of Morpho- logical and Hydrological Types of Aquatic Eco- systems Abandoned by the Rhone River, W85-04722	1809 2H	<b>PURAC A.B., LUND (SWEDEN).</b> Anaerobic Treatment of Sulphite Evaporator Condensate in a Pilot Plant of Novel Design, W85-07020	1812 5D
<b>PRINCESS MARGARET CHILDREN'S MEDICAL RESEARCH FOUNDATION, PERTH (AUSTRALIA).</b> Isolation of Aeromonas hydrophila from a Met- ropolitan Water Supply: Seasonal Correlation with Clinical Isolates, W85-02596	1805 5F	<b>PROJECTS AND DEVELOPMENT INDIA LTD., SINDRI (INDIA). CHEMICAL RESEARCH WING.</b> Simultaneous Determination of Zinc and Chromo- mate in Cooling Water by Differential Pulse Polarography, W85-04624	1809 5A	<b>PURDUE UNIV., LAFAYETTE, IN.</b> Simple Pneumatic Device and Technique for Performing Rising Water Level Slug Tests, W85-03186	1806 7B
Isolation of Aeromonas spp. from an Unchlorin- ated Domestic Water Supply, W85-02597	1805 5F	<b>PSC WATER SERVICE, INC., PALM HARBOR, FL.</b> Water Rates and the Rate-Setting Process, W85-03614	1807 6C	Treating Pesticide-Contaminated Wastewater; Development and Evaluation of a System, W85-06782	1812 5D
<b>PRINCETON UNIV., NJ. DEPT. OF CIVIL ENGINEERING.</b> Calculation of Velocity in Three Space Dimen- sions from Hydraulic Head Measurements, W85-00306	1801 2F	<b>PUBLIC HEALTH DEPT. KAMLOOPS (BRITISH COLUMBIA).</b> Ethylene Dichloride/Ethylene Glycol Spill in a Major Water Resource in British Columbia, W85-06610	1812 5G	<b>PURDUE UNIV., LAFAYETTE, IN. AGRICULTURAL EXPERIMENT STATION.</b> Laboratory Study of Rill Hydraulics: I. Velocity Relationships, W85-03387	1807 2E
Numerical Model Study of Ground-Water Con- tamination from Price's Landfill, New Jersey - I. Data Base and Flow Simulation, W85-00353	1801 5B	<b>PUBLIC WORKS DEPT. OF MALAYSIA, KUANTAN.</b> Microcomputer Programs for Designing Water Systems, W85-01903	1804 8A	Laboratory Study of Rill Hydraulics: II. Shear Stress Relationships, W85-03388	1807 2J
Numerical Model Study of Ground-Water Con- tamination from Price's Landfill, New Jersey - II. Sensitivity Analysis and Contaminant Plume Simulation, W85-00354	1801 4B	<b>PUERTO RICO UNIV., MAYAGUEZ. DEPT. OF CIVIL ENGINEERING.</b> Seismic Design Criteria for Buried Water Pipe- line in Puerto Rico, W85-01821	1804 8A	<b>PURDUE UNIV., LAFAYETTE, IN. DEPT. OF AGRICULTURAL ECONOMICS.</b> Soil Loss Reduction in Finley Creek, Indiana: An Economic Analysis of Alternative Policies, W85-05963	1811 5G
Linear Analysis of Thermal Effects on Evapora- tion From Soil, W85-02364	1805 2G			<b>PURDUE UNIV., LAFAYETTE, IN. DEPT. OF AGRONOMY.</b> Unifying the Concepts of Scale, Instrumentation, and Stochastics in the Development of Multi- phase Transport Theory, W85-03567	1807 2J
Simulation Analysis of Thermal Effects on Evaporation From Soil, W85-02365	1805 2G				

## ORGANIZATIONAL INDEX

### PURDUE UNIV., LAFAYETTE, IN. DEPT. OF AGRONOMY.

Fourier Interpretation of Multiphase Averaging Theory,  
W85-04172 1808 2F

### PURDUE UNIV., LAFAYETTE, IN. DEPT. OF BIOLOGICAL SCIENCES.

Excretion of Photosynthetically Fixed Organic Carbon by Metalimnetic Phytoplankton,  
W85-05876 1811 2H

### PURDUE UNIV., LAFAYETTE, IN. DEPT. OF CIVIL ENGINEERING.

Depth-Duration Models of Short Time Increment Rainfall,  
W85-01683 1804 2B

### PURDUE UNIV., LAFAYETTE, IN. DEPT. OF ENVIRONMENTAL ENGINEERING.

Effect of Various Hydrologic Parameters on the Quality of Stormwater Runoff from a West Lafayette, Indiana Urban Watershed,  
W85-01822 1804 5B

Characteristics of Activated Sludge Effluents before and after Ozonation,  
W85-07045 1812 5E

### PURDUE UNIV., LAFAYETTE, IN. SCHOOL OF CIVIL ENGINEERING.

Proceedings, 38th Industrial Waste Conference.  
W85-05396 1810 5D

### PURDUE UNIV., LAFAYETTE, IN. WATER RESOURCES RESEARCH CENTER.

Interorganizational Relations and Decision Making Among Section 208 Water Quality Management Planning Agencies,  
W85-06305 1812 6E

Problem Oriented Evaluation of Institutional Decision Making and Improvement of Models Used in Regional Urban Runoff Management: Application to Indiana,  
W85-06306 1812 6A

### QED CORP., ANN ARBOR, MI.

Waste Hauler/Disposer Meets Pretreatment Guidelines,  
W85-05260 1810 5F

### QINGHAI INST. OF SALT LAKE, XINING (CHINA).

Salt Lakes and Their Origins in Xinjiang, China  
(in Chinese),  
W85-02383 1805 2H

### QUEBEC UNIV., CHICOUTIMI, DEPT. DES SCIENCES APPLIQUEES.

Stochastic Characterization of Temporal Storm Patterns,  
W85-01686 1804 2B

Stochastic Description of Temporal Daily Rainfall Patterns,  
W85-01712 1804 2B

### QUEBEC UNIV., CHICOUTIMI, DEPT. DES SCIENCES FONDAMENTALES.

Toxic Aspects of Copper on the Biomass and Productivity of Phytoplankton of the Saguenay River, Quebec (Aspects Toxiciques du Cuivre Sur La Biomasse et la Productivite du Phytoplankton de la Riviere du Saguenay, Quebec),  
W85-00401 1801 5C

### QUEBEC UNIV., MONTREAL, DEPT. SCIENCES DE LA TERRE.

Isotopic Analyses (18O, 13C, 14C) of Two Meromictic Lakes in the Canadian Arctic Archipelago,  
W85-01329 1803 2H

### QUEBEC UNIV., RIMOUSKI, DEPT. OF OCEANOGRAPHY.

Development of Liquid and Solid Discharges of a Sub-Boreal Estuary: The St-Jean River, Quebec (North Coast of the Gulf of St-Lawrence) (Evolution du debit liquide et de la charge solide d'un estuarie sub-boreal: riviere St-Jean, Quebec (cote nord du golfe du St-Laurant)),  
W85-00144 1801 2L

Variability of the Near-Surface Residual Current in the Lower St. Lawrence Estuary,  
W85-00516 1802 2L

Fatty Acids in Recent Sediments in the St. Lawrence Estuary,  
W85-00657 1802 2L

Short-Term Variability of the Size Spectra of Suspended Particles in a Rapidly Changing Environment,  
W85-00658 1802 2L

Boron Content in the Sediments from the St. Lawrence Estuary off Rimouski, Quebec, Canada,  
W85-01094 1802 5B

### QUEBEC UNIV., SAINTE-FOY.

Relationships between the Partitioning of Trace Metals in Sediments and Their Accumulation in the Tissues of the Freshwater Mollusc Elliptio complanata in a Mining Area,  
W85-03308 1807 5B

Accumulation of Copper and Zinc in the Yellow Water Lily, Nuphar variegatum: Relationships to Metal Partitioning in the Adjacent Lake Sediments,  
W85-04837 1809 5B

### QUEEN MARY COLL., LONDON (ENGLAND).

Flow Distribution in Compound Channels,  
W85-05788 1810 2E

Marine Pollution Under the Law of the Sea Convention,  
W85-06366 1812 6E

### QUEEN MARY COLL., LONDON (ENGLAND). DEPT. OF CIVIL ENGINEERING.

Parameter Optimization in Flood Routing,  
W85-03790 1808 2E

### QUEEN'S UNIV., BELFAST (NORTHERN IRELAND).

Experimental Study of Ozonation Followed by Slow Sand Filtration for the Removal of Humic Colour from Water,  
W85-03050 1806 5D

### QUEEN'S UNIV., BELFAST (NORTHERN IRELAND). DEPT. OF AGRICULTURAL AND FOOD CHEMISTRY.

Spatial and Temporal Trends in Heavy Metal Concentrations in Mussels from Northern Ireland Coastal Water,  
W85-01901 1804 5A

### QUEEN'S UNIV., BELFAST (NORTHERN IRELAND). DEPT. OF CHEMICAL ENGINEERING.

Fuller's Earth and Fired Clay as Adsorbents for Dyestuffs; Equilibrium and Rate Studies,  
W85-05701 1810 5D

Adsorption of Various Pollutants from Aqueous Solutions on to Activated Carbon,  
W85-06736 1812 5D

### QUEEN'S UNIV., KINGSTON (ONTARIO). DEPT. OF BIOLOGY.

Responses of Certain Freshwater Planktonic Algae to Fluoride,  
W85-01176 1803 5C

Mortality of Early Life Stages of Largemouth Bass, Micropterus salmoides Due to Pentachlorophenol Exposure,  
W85-05014 1810 5C

Postglacial Changes in Algal and Cladoceran Assemblages in Little Round Lake, Ontario,  
W85-06392 1812 2H

### QUEEN'S UNIV., KINGSTON (ONTARIO). DEPT. OF CIVIL ENGINEERING.

Measurement of Concrete Permeability,  
W85-01714 1804 8F

Hydraulic Stabilization of Earth Structures,  
W85-03419 1807 8D

### QUEEN'S UNIV., KINGSTON (ONTARIO). DEPT. OF GEOGRAPHY.

Contemporary Sedimentary Environments on Baffin Island, N.W.T., Canada: Reconnaissance of Lakes on Cumberland Peninsula,  
W85-00110 1801 2H

### QUEENSLAND ELECTRICITY GENERATING BOARD, BRISBANE (AUSTRALIA). SCIENTIFIC SERVICES BRANCH.

Macrofauna of the Cooling Water Discharge Canal of the Gladstone Power Station, Queensland,  
W85-00789 1802 5C

### QUEENSLAND UNIV., BRISBANE (AUSTRALIA). DEPT. OF MECHANICAL ENGINEERING.

Behaviour of a Converging-Channel Breakwater, Theory and Experiment,  
W85-00713 1802 8B

### QUEENSLAND UNIV., BRISBANE (AUSTRALIA). DEPT. OF MICROBIOLOGY.

Removal of Bacteria from Water by Adsorption to Magnetite,  
W85-02909 1806 5F

### RAJASTHAN UNIV., JAIPUR (INDIA). DEPT. OF BOTANY.

Seasonal Changes in Concentration of Major Nutrient Elements in the Rhizomes and Leaves of Typha elephantina Roxb,  
W85-03316 1807 5D

Influence of Water Hyacinth Cover on the Physico-Chemical Characteristics of Water and Phytoplankton Composition in a Reservoir near Jaipur (India),  
W85-04913 1809 5C

Impact of Human Activities on Water Quality - a Case Study of Water Pollution in Jaipur (India),  
W85-05614 1810 5B

### RALEIGH PUBLIC UTILITIES, NC.

Water Main Project Serves Expanding Hi-tech Area,  
W85-00552 1802 8A

### RAMAPO COLL. OF NEW JERSEY, MAWAH. SCHOOL OF ENVIRONMENTAL STUDIES.

Variation in Substrate Chemistry along Microtopographical and Water-Chemistry Gradients in Peatlands,  
W85-00949 1802 2L

### RAMIREZ ASSOCIATES, FAR HILLS, NJ.

Recycling Undiluted Dragout from Toxic Plating Solutions,  
W85-05242 1810 5F

### RAND CORP., SANTA MONICA, CA.

Verification of a Model of the Eastern Scheldt,  
W85-05121 1810 2L

**ORGANIZATIONAL INDEX**  
**RHODE ISLAND UNIV., KINGSTON. GRADUATE SCHOOL OF OCEANOGRAPHY.**

**RAT DER STADT DRESDEN (GERMAN D.R.).**  
 Responsibility of the Department of Energy, Environmental Protection, and Water Management of the Dresden City Council for Groundwater Conservation in Drinking-Water Supply Areas (Die Verantwortung der Abteilung Energie, Umweltschutz und Wasserwirtschaft beim Rat der Stadt Dresden für den Schutz des Grundwassers in Trinkwassergewinnungsgebieten),  
 W85-03520 1807 6F

**RAT FUER UMWELTSCHUTZ UND WASSERWIRTSCHAFT MAGEBURG (GERMAN D.R.).**  
 Observations from the Execution of Water Inspections in the Schwerin District (Erfahrungen bei der Durchführung von Gewässerschau im Bezirk Schwerin),  
 W85-03529 1807 6E

**RAT FUER UMWELTSCHUTZ UND WASSERWIRTSCHAFT COTTBUS (GERMAN D.R.).**

Observations from the Societal Control of Natural Waters and Water Facilities During the 1983 Spring Dike and River Inspection (Erfahrungen aus der Gesellschaftlichen Kontrolle der Gewässer und der Wasserwirtschaftlichen Anlagen Wahrend der Frühjahrssdeich- und Flusschau 1983),  
 W85-03528 1807 6E

**RAT FUER UMWELTSCHUTZ, WASSERWIRTSCHAFT UND ERHOLUNGSWESEN SCHWERIN (GERMAN D.R.).**

Observations from the Execution of Dike and Drainage Ditch Inspection in the Magdeburg District (Erfahrungen bei der Durchführung von Deich- und Grabenschauen im Bezirk Magdeburg),  
 W85-03530 1807 6E

**RAVISHANKAR UNIV., RAIPUR (INDIA). DEPT. OF CHEMISTRY.**  
 Determination of Ultra Trace Concentrations of Nitrite in Polluted Waters and Soil,  
 W85-00547 1802 5A

Toxicity of Nitrite and Its Determination in Polluted Waters Using a New Reagent,  
 W85-07106 1812 5A

**RCA LABS., PRINCETON, NJ.**  
 Portable Evaporimeter for Rapid Measurement of the Evaporation Rate of Water,  
 W85-06199 1812 2D

**READING UNIV. (ENGLAND). DEPT. OF AGRICULTURAL BOTANY.**  
 Comparison of Rainfall Regimes at Six Sites in Northern Syria,  
 W85-06194 1812 2B

**READING UNIV. (ENGLAND). DEPT. OF APPLIED STATISTICS.**  
 Use of Rainfall Models in Agricultural Planning,  
 W85-01066 1802 2B

**READING UNIV. (ENGLAND). DEPT. OF ZOOLOGY.**

Ultrastructural Localization of Metals in Specimens of *Littorina littorea* Collected from Clean and Polluted Sites,  
 W85-02543 1805 5C

Cellular Responses of Molluscan Tissues to Environmental Metals,  
 W85-05883 1811 5C

**REECE ENGINEERING, INC., CLARKSVILLE, TN.**

Steel Welding Wire Manufacturer Meets Stringent Effluent and Sludge Disposal Criteria,  
 W85-05233 1810 5D

**REGENSBURG UNIV. (GERMANY, F.R.).**  
**INST. FUER ANORGANISCHE CHEMIE.**  
 Simultaneous Determination of Cl-, Br- and I- in Water Samples by Isotope Dilution Mass Spectrometry (Gleichzeitige Bestimmung von Cl-, Br- und I- in Wassern durch massenspektrometrische Isotopenverdunnsanalyse),  
 W85-06759 1812 5A

**REGINA UNIV. (SASKATCHEWAN).**  
**FACULTY OF ENGINEERING.**

Leachability of Barium-Radium Sulfate Sludges,  
 W85-05261 1810 5B

Performance of a Potato Processing Wastewater Treatment Plant: A Case History,  
 W85-05565 1810 5D

**REID, QUEBE, ALLISON, WILCOX AND ASSOCIATES, INC., INDIANAPOLIS, IN.**  
 Land Application of Municipal Wastewater Treatment Plant Sludge, Indianapolis, Indiana,  
 W85-05390 1810 5E

**REITZ AND JENS, INC., ST. LOUIS, MO.**  
 Case Study of Leachate and Gas Management at a Sanitary Landfill,  
 W85-05365 1810 5D

**RENDEL, PALMER AND TRITTON, LONDON (ENGLAND).**  
 Environmental Effects of Flood Control in the Yare Basin,  
 W85-00568 1802 6G

Jamuna River 230 kV Crossing - Bangladesh, I.  
 Design of Foundations,  
 W85-04470 1809 8A

**RENNES-1. (FRANCE). LAB. D'HYDROBIOLOGIE.**  
 Toxic Effects of Vanadium on the Metabolism of Some Freshwater Algae Cultured in Vitro (Effets Toxiques du Vanadium Sur le Métabolisme de Quelques Algues d'eau Douce Cultivées in Vitro),  
 W85-03692 1807 5C

**RENSSELAER POLYTECHNIC INST., TROY, NY. DEPT. OF BIOLOGY.**

Submersed Macrophyte Communities of Adirondack Lakes (New York, U.S.A.) of Varying Degrees of Acidity,  
 W85-06804 1812 2H

**RESEARCH COUNCIL OF ALBERTA, EDMONTON. HYDROTECHNICAL SECTION.**

Field Observations of River Bed Scour on the Peace River near Fort Vermilion, Alberta,  
 W85-05457 1810 8D

**RESIDUALS MANAGEMENT TECHNOLOGY, INC., MADISON, WI.**

Leaching Behavior of Lead and Cadmium at Various pH Conditions,  
 W85-05370 1810 5E

Field Investigation of a Superfund Site,  
 W85-05380 1810 5E

**RESOURCES FOR THE FUTURE, INC., WASHINGTON, DC.**

Forest Management for Increased Timber and Water Yields,  
 W85-01338 1803 3B

Impacts, Costs, and Techniques for Mitigation of Contaminated Groundwater: A Review,  
 W85-03982 1808 5G

**RESOURCES FOR THE FUTURE, INC., WASHINGTON, DC. QUALITY OF THE ENVIRONMENT DIV.**

Polices for Nonpoint-Source Water Pollution Control,  
 W85-05943 1811 5G

**RESOURCES FOR THE FUTURE, INC., WASHINGTON, DC. RENEWABLE RESOURCES DIV.**

Water Resource Issues and the Future of Irrigated Agriculture,  
 W85-04186 1808 6D

**REXNORD, INC., MILWAUKEE, WI.**  
 Control Solids in Cooling Water to Cut Makeup Requirements,  
 W85-01538 1803 5D

**RHEIN-MAIN-DONAU A.G., MUNICH (GERMANY, F.R.).**

Consideration of Scenic and Ecological Aspects during Construction of the Rhine-Main-Danube-Waterway (Landschaftsgestalterische und ökologische Fragen beim Bau der Rhein-Main-Donau-Wasserstrasse),  
 W85-03251 1807 6A

**RHEIN-NECKAR ENERGY AND WATERWORKS CORP., MANNHEIM (GERMANY, F.R.).**

Study of Waterworks in the Mannheim/Heidelberg Urban Area Using the Example of the Rheinau RHE Waterworks (Wasserwerksbetriebe im Ballungsraum Mannheim/Heidelberg am Beispiel des RHE-Wasserwerkes Rheinau),  
 W85-04626 1809 5F

**RHEINISCH-WESTFAELISCHE WASSERWERKSGESELLSCHAFT M.B.H., MULHEIM AN DER RUHR (GERMANY, F.R.).**

Limits of Determination and Detection of Chlorine, Chlorine Dioxide and Chlorite by the Method of Palin (Bestimmungs- und Nachweisgrenzen der Methode von Palin zur differentiellen Analyse von Chlor, Chlordioxid, und Chlorit im Trinkwasser),  
 W85-02756 1806 5A

**RHODE ISLAND UNIV., KINGSTON. DEPT. OF BOTANY.**

Seagrass-Sediment Dynamics of a Flood-Tidal Delta in Rhode Island (U.S.A.),  
 W85-01081 1802 2L

**RHODE ISLAND UNIV., KINGSTON. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.**

Ground-Water Dispersion Calculations with a Programmable Calculator,  
 W85-00352 1801 2F

**RHODE ISLAND UNIV., KINGSTON. DEPT. OF MICROBIOLOGY.**

Effect of Fecal Pollution on *Vibrio parahaemolyticus* Densities in an Estuarine Environment,  
 W85-07132 1812 5C

**RHODE ISLAND UNIV., KINGSTON. DEPT. OF OCEAN ENGINEERING.**

Oil Spill Fishery Impact Assessment Model: Sensitivity to Spill Location and Timing,  
 W85-05688 1810 5C

**RHODE ISLAND UNIV., KINGSTON. GRADUATE SCHOOL OF OCEANOGRAPHY.**

Effects of Copper and Cadmium on Growth, Swimming and Predator Avoidance in *Eurytemora affinis* (Copepoda),  
 W85-01900 1804 5C

Microbial Metabolism in Surface Sediments and its Role in the Immobilization of Phosphorus in Oligotrophic Lake Sediments,  
 W85-02076 1804 2J

Metal Incorporation by Benthic Fauna: Relationships to Sediment Inventory,  
 W85-03634 1807 5C

## ORGANIZATIONAL INDEX

### RHODE ISLAND UNIV., NARRAGANSETT. GRADUATE SCHOOL OF OCEANOGRAPHY.

**RHODE ISLAND UNIV., NARRAGANSETT.  
GRADUATE SCHOOL OF OCEANOGRAPHY.**  
Recovery of a Polluted Estuarine System: A Mesocosm Experiment,  
W85-01046 1802 5B

Total Hydrocarbons, Polycyclic Aromatic Hydrocarbons and Synthetic Organic Compounds in the Hard Shell Clam, *Mercenaria mercenaria*, Purchased at Commercial Seafood Stores,  
W85-01352 1803 5C

Influence of the Surface Microlayer on Nutrients, Chlorophyll and Algal Diversity of a Small Eutrophic Bog Pond,  
W85-05738 1810 2H

Residence Time of Water in Narragansett Bay,  
W85-06411 1812 2L

### RHODES UNIV., GRAHAMSTOWN (SOUTH AFRICA). DEPT. OF PLANT SCIENCES.

Effects of Dredging on the Macrophytic Vegetation of the Boro River, Okavango Delta, Botswana,  
W85-03762 1807 6G

### RHODES UNIV., GRAHAMSTOWN (SOUTH AFRICA). DEPT. OF ZOOLOGY AND ENTOMOLOGY.

Analysis, by Bioassay, of the Factors which Limit Algal Growth in the P. K. le Roux Impoundment, Orange River, South Africa,  
W85-01478 1803 2H

### RHODES UNIV., GRAHAMSTOWN (SOUTH AFRICA). HYDROLOGICAL RESEARCH UNIT.

Isolated Event Model Based upon Direct Runoff Calculations Using an Implicit Source Area Concept,  
W85-02829 1806 2E

Effect of Irrigation Practices in the Bree River Valley on the Salt Content of a Small River,  
W85-05928 1811 5B

### RICE UNIV., HOUSTON, TX. DEPT. OF ENVIRONMENTAL SCIENCE AND ENGINEERING.

Microbial Removal of Wastewater Organic Compounds as a Function of Input Concentration in Soil Columns,  
W85-03434 1807 5D

Anaerobic Inhibition of Trace Organic Compound Removal During Rapid Infiltration of Wastewater,  
W85-03435 1807 5D

### RIDER COLL., LAWRENCEVILLE, NJ. DEPT. OF BIOLOGY.

Fluxes of Heavy Metals in Delaware River Freshwater Tidal Wetlands,  
W85-01805 1804 5B

### RIJKS-KWALITEITSINSTITUUT VOOR LAND-EN TUINBOUWPRODUKTEN, WAGENINGEN (NETHERLANDS).

Determination of Dissolved Hexavalent Chromium in River Water, Sea Water and Waste Water,  
W85-06761 1812 5A

### RIJKSDIENST VOOR DE IJSSELMEERPOLDERS, LELYSTAD (NETHERLANDS).

Design Inflow Intensity and Design Inflow Profiles For Storm Sewers,  
W85-01692 1804 2E

### RIJKSINSTITUUT VOOR DE VOLKSGEZONDHEID, BILTHOVEN (NETHERLANDS). LAB. FOR WATER AND FOOD MICROBIOLOGY.

Method for the Enumeration of Male-Specific Bacteriophages in Sewage,  
W85-01149 1803 5A

### RIJKSINSTITUUT VOOR DRINKWATERVOORZIENING, LEIDSCHENDAM (NETHERLANDS).

Mutagenic Activity Associated with By-Products of Drinking Water Disinfection by Chlorine, Chlorine Dioxide, Ozone and UV-Irradiation,  
W85-01216 1803 5C

Impact of Chlorine, Chlorine dioxide and Ozone on the Oxidation of NTA during Drinking Water Treatment,  
W85-02965 1806 5F

Power of the Electronic Worksheet: Modeling Without Special Programs,  
W85-06828 1812 2F

### RIJKSINSTITUUT VOOR DRINKWATERVOORZIENING, LEIDSCHENDAM (NETHERLANDS). CHEMICAL BIOLOGICAL DIV.

Presence, Introduction and Removal of Mutagenic Activity During the Preparation of Drinking Water in the Netherlands,  
W85-01217 1803 5F

Formation and Removal of Mutagenic Activity During Drinking Water Preparation,  
W85-01728 1804 5F

### RIJKSINSTITUUT VOOR NATUURBEHEER, LEERSUM (NETHERLANDS).

Bimodal Diel Dissolved Oxygen Curves and Thermal Stratification in Polder Ditches,  
W85-00997 1802 2H

Ecological Types of Running Water Based on Stream Hydraulics in the Netherlands,  
W85-02504 1805 2E

Development and Use of an Aquatic Micro-Ecosystem as a Test System for Toxic Substances. Properties of an Aquatic Micro-Ecosystem IV,  
W85-02570 1805 5A

Transportation of Water, Particulate and Dissolved Organic and Inorganic Matter between a Salt Marsh and the Ems-Dollard Estuary, The Netherlands,  
W85-02655 1805 2L

Alto Sinu Hydroelectric Project in Colombia: Possible Consequences for the Environment,  
W85-05718 1810 2H

Mercury, Selenium, Arsenic and Zinc in Waders from the Dutch Wadden Sea,  
W85-06169 1811 5C

Lead and Cadmium in Waders from the Dutch Wadden Sea,  
W85-06170 1811 5C

### RIJKSINSTITUUT VOOR ZUIVERING VAN AFVALWATER, LELYSTAD (NETHERLANDS). LAB. FOR ECOTOXICOLOGY.

Aquatic Toxicity of 2,6-Dichlorobenzamide (BAM), a Degradation Product of the Herbicide Dichlobenil,  
W85-04944 1809 5C

Use of Cohorts and Populations in Chronic Toxicity Studies with *Daphnia magna*: A Cadmium Example,  
W85-05810 1810 5C

### RIJKSUNIVERSITAIR CENTRUM TE ANTWERPEN (BELGIUM).

Changes in the Oxygen Balance of a Polluted Brook-Pond System During an Aeration Experiment (Veranderingen in de zuurstofbalans van een Bevuilde Beek-Vijverwater Gedurende een Aeratie-Experiment),  
W85-04889 1809 5G

Changes of Organic and Inorganic Nitrogen in a Polluted Brook-Pond System During an Aeration Experiment (Veranderingen in de Organische en Anorganische Stikstof van een Bevuilde Beek-Vijverwater Gedurende een Aeratie-Experiment),  
W85-04890 1809 5G

### RIJKSWATERSTAAT-DELTADIENST, MIDDELBURG, MIDDELBURG (NETHERLANDS). ENVIRONMENTAL DIV.

Shore Protection - A Tension Field Between Two Types of Conservation,  
W85-00562 1802 8A

### RINTEKNO OY, ESPOO (FINLAND).

Application of Models in Developing Control Strategies for Activated Sludge Waste Water Treatment Plants,  
W85-01431 1803 5D

### RISBY, BURY ST. EDMUNDS (ENGLAND).

Step-functional Change in Annual Peak Flow Illustrated for the Ishikari River at Hashimoto-cho, Hokkaido,  
W85-00928 1802 4A

### RISSHOU UNIV., TOKYO (JAPAN). DEPT. OF GEOGRAPHY.

Measurement of Vertical Movement of Lake Water,  
W85-02608 1805 2H

Numerical Simulations of Soil-Water Flow During Wetting in a Nonhomogeneous Soil,  
W85-03757 1807 2G

### RIVANNA WATER AND SEWER AUTHORITY, CHARLOTTESVILLE, VA.

Biological Treatability Study of Wastewater from a Nylon Fibers and Plastics Facility,  
W85-05415 1810 5D

### RMM TECHNICAL SERVICES, INC., CINCINNATI, OH.

Algorithm For Mixing Problems in Water Systems,  
W85-05780 1810 6C

### ROBERT S. KERR ENVIRONMENTAL RESEARCH LAB., ADA, OK.

Approximating Pollutant Transport to Ground Water,  
W85-00349 1801 5B

Optimizing Pumping Strategies for Contaminant Studies and Remedial Actions,  
W85-02217 1805 5G

Biotransformation of Trichloroethylene in Soil,  
W85-04267 1808 5B

Groundwater Quality Protection: The Issue in Perspective,  
W85-04683 1809 5G

### ROCHESTER UNIV., NY. DEPT. OF RADIATION BIOLOGY AND BIOPHYSICS.

Content and Chemical Form of Mercury and Selenium in Lake Ontario Salmon and Trout,  
W85-04717 1809 5C

### ROCKAWAY TOWNSHIP WATER DEPT., NJ.

Removing Organics from Groundwater through Aeration Plus GAC,  
W85-00700 1802 5F

Simplifying Stormwater Detention Basin Discharge Control Determinations,  
W85-00735 1802 8A

### ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION, TEMPE, AZ.

Conversion of Arizona Chaparral to Grass Increases Water Yield and Nitrate Loss,  
W85-03564 1807 3B

**ORGANIZATIONAL INDEX**  
**RUTGERS - THE STATE UNIV., NEW BRUNSWICK, NJ. DEPT. OF BIOCHEMISTRY AND**

<b>ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION, TEMPE, AZ. FORESTRY SCIENCES LAB.</b>			
Overland Flow and Sediment Delivery: An Experiment with Small Subdrainage in Southwestern Ponderosa Pine Forests (Colorado, U.S.A.), W85-01612	1803	2J	
Changes in Streamflow in an Herbicide-Treated Pinon-Juniper Watershed in Arizona, W85-03563	1807	3B	
Gully Rehabilitation - A Three-Stage Process in a Sodic Soil, W85-03967	1808	4D	
<b>RODEY, DICKASON, SLOAN, AKIN AND ROBB, ALBUQUERQUE (NEW MEXICO).</b>			
Prior Appropriation, Impairment, Replacements, Models and Markets, W85-01248	1803	6E	
<b>ROGALAND DISTRIKTSHOEGSKOLE, STAVANGER (NORWAY).</b>			
Use of Lime Slurry for Deacidification of Running Water, W85-05679	1810	5G	
<b>ROLLINS COLL., WINTER PARK, FL. DEPT. OF BIOLOGY.</b>			
Phytoplankton Responses to Reduction and Elimination of Submerged Vegetation by Herbicides and Grass Carp in Four Florida Lakes, W85-04857	1809	5G	
<b>ROME UNIV. (ITALY). IST. DI CHIMICA ANALITICA.</b>			
Ion Selective Electrodes for Measurements in Fresh Waters, W85-02316	1805	7B	
<b>ROMICON, INC., WOBURN, MA.</b>			
Evaluation of Hollow Fiber Ultrafiltration as a Pretreatment for Reverse Osmosis Desalination of Seawater, W85-01830	1804	3A	
<b>ROORKEE UNIV. (INDIA). DEPT. OF CHEMISTRY.</b>			
Estimation of Sulphate Ions in Water and Industrial Wastes Using a Solid State Membrane Electrode, W85-04488	1809	7B	
<b>ROORKEE UNIV. (INDIA). DEPT. OF CIVIL ENGINEERING.</b>			
Variations in Quality in the Ganges, W85-05836	1810	5G	
Water Quality Variations and Control Technology of Yamuna River, W85-06171	1811	5C	
Effect of the Ratio of Reactor Diameter to Particle Size on the Performance of a Moving Media Reactor, W85-07109	1812	5D	
<b>ROORKEE UNIV. (INDIA). DEPT. OF ZOOLOGY.</b>			
Evaluation of the Toxicity of Sodium Pentachlorophenol, Pentachlorophenol and Phenol to the Snail Viviparus bengalensis (L.), W85-02898	1806	5C	
<b>ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE, MIAMI, FL.</b>			
Effect of Pesticides on Photosynthesis and Respiration of Marine Macrophytes, W85-02795	1806	5C	
Conductivity-Density-Salinity-Chlorinity Relationships for Estuarine Waters, W85-03878	1808	2L	
Effect of Ionic Interactions on the Oxidation of Metals in Natural Waters, W85-04761	1809	2K	
Toxicity of Copper to the Marine Bacterium <i>Vibrio alginolyticus</i> , W85-05743	1810	5C	
<b>ROSTOVSKII-NA-DONU GOSUDARSTVENNYI UNIV. (USSR).</b>			
NAUCHNO-ISSLEDOVATEL'SKII INST. MEKHANIKI I PRIKLADNOI MATEMATIKI.			
Simulation Modeling as a Means of Studying Large Aquatic Ecosystems, W85-02884	1806	2A	
<b>ROSWELL PARK MEMORIAL INST., BUFFALO, NY. DEPT. OF EXPERIMENTAL BIOLOGY.</b>			
Environmental Implications of Neoplasia in Great Lakes Fish, W85-05900	1811	5C	
<b>ROTHAMSTED EXPERIMENT STATION, HARPENDEN (ENGLAND). DEPT. OF SOILS AND PLANT NUTRITION.</b>			
Effects of pH on the Release to Solution of Zinc, Copper and Nickel from Metal-Loaded Sewage Sludges, W85-02742	1806	5B	
Effect of pH on the Uptake of Zinc, Copper and Nickel from Chloride Solutions by an Uncontaminated Sewage Sludge, W85-05977	1811	5D	
<b>ROYAL ACADEMY OF BELGIUM, BRUSSELS.</b>			
Variational-Lagrangian Analysis of Aquifers with Application to Artesian Wells, W85-05503	1810	2F	
<b>ROYAL INST. OF TECH., STOCKHOLM (SWEDEN). DEPT. OF CHEMICAL ENGINEERING.</b>			
Migration of Radionuclides in Fissured Rock: Analytical Solutions for the Case of Constant Source Strength, W85-03167	1806	2F	
Approach to Modelling Radionuclide Migration in a Medium with Strongly Varying Velocity and Block Sizes Along the Flow Path, W85-03988	1808	5B	
<b>ROYAL INST. OF TECH., STOCKHOLM (SWEDEN). DEPT. OF LAND IMPROVEMENT AND DRAINAGE.</b>			
'Trap-dams': Artificial Subsurface Storage of Water, W85-03699	1807	3B	
<b>ROYAL MILITARY COLL. OF CANADA, KINGSTON (ONTARIO).</b>			
International Water Management in Canadian-American Relations, 1894-1907, W85-04588	1809	6E	
<b>ROYAL NETHERLANDS METEOROLOGICAL INST., DE BILT.</b>			
Tests for Detecting a Shift in the Mean of Hydrological Time Series, W85-02458	1805	2A	
Effect of Seasonal Variation of Serial Correlation on the Extreme Value Distribution of Rainfall Data, W85-07068	1812	2B	
<b>ROYAL SOCIETY FOR THE PROTECTION OF BIRDS, SANDY (ENGLAND).</b>			
Demography and Flora of the Ouse Washes, England, W85-00116	1801	2L	
<b>RSE, INC., MADISON, WI.</b>			
Suitability and Hydraulic Capacity of Different Soils, W85-05211	1810	5D	
Design and Construction of Conventional and Mound Systems, W85-05218	1810	5D	
<b>RUAKURA AGRICULTURAL RESEARCH CENTER, HAMILTON (NEW ZEALAND).</b>			
Anomalies in the High-Performance Liquid Chromatographic Determination of Diquat in Water Samples, W85-03405	1807	5A	
<b>RUAKURA SOIL AND PLANT RESEARCH STATION, HAMILTON (NEW ZEALAND).</b>			
Water Use by Tamarillos ( <i>Cyphomandra betacea</i> ) within a Sheltered Orchard Environment, W85-06195	1812	2I	
<b>RUHRVERBAND, ESSEN (GERMANY, F.R.).</b>			
Cadmium Balance and Restoration Strategy for a River Basin, W85-01409	1803	5D	
Sealing of the Heavily Jointed Sandstone Strata at Brombach-Dam (Abdichtung des stark klufigen Sandsteingebirges an der Brombachaltsperre), W85-03260	1807	8F	
Evidential Monitoring of Dams (Aussagefahigkeit von Kontrollmessungen an Asperrbauwerken), W85-03261	1807	8A	
Experiences with Polishing Lagoons, W85-03651	1807	5D	
<b>RUHRVERBAND, ESSEN (GERMANY, F.R.). CHEMISCHE UND BIOLOGISCHES LAB.</b>			
Results of Interlaboratory Ringtests Concerning the Determination of Chlorophyll-a in Water (Ergebnisse eines Ringversuches zur Chlorophyll-a-Bestimmung im Wasser), W85-02755	1806	5A	
<b>RUTGERS - THE STATE UNIV., CAMDEN, NJ. DEPT. OF BIOLOGY.</b>			
Comparison of Aquatic Species Composition and Diversity in Disturbed and Undisturbed Pinelands Waters, W85-00823	1802	5B	
Acidification of Headwater Streams in the New Jersey Pinelands: A Re-Evaluation, W85-03877	1808	5B	
<b>RUTGERS - THE STATE UNIV., NEW BRUNSWICK, NJ. CENTER FOR COASTAL AND ENVIRONMENTAL STUDIES.</b>			
Aavian Utilisation on Six Salt Marshes in New Jersey, W85-00120	1801	2L	
Wetlands of the New Jersey Pinelands: Values, Functions, Impacts and a Proposed Buffer Delimitation Model, W85-00813	1802	6G	
Estimation of Drainage Areas in A Homogeneous Landscape, W85-04990	1810	2E	
Feasibility of Using Forest Vegetation to Renovate Septic Tank Effluent in the New Jersey Pine Barrens, W85-06310	1812	5D	
<b>RUTGERS - THE STATE UNIV., NEW BRUNSWICK, NJ. DEPT. OF BIOCHEMISTRY AND MICROBIOLOGY.</b>			
Mechanisms and Pathways of Aniline Elimination from Aquatic Environments, W85-02932	1806	5B	

## ORGANIZATIONAL INDEX

### RUTGERS - THE STATE UNIV., NEW BRUNSWICK, NJ. DEPT. OF BIOCHEMISTRY AND

Methylation and Demethylation of Mercury Under Controlled Redox, pH, and Salinity Conditions,  
W85-03737 1807 5B

### RUTGERS - THE STATE UNIV., NEW BRUNSWICK, NJ. DEPT. OF BIOLOGICAL AND AGRICULTURAL ENGINEERING.

Impacts on Groundwater Due to Land Application of Sewage Sludge,  
W85-01381 1803 5E

### RUTGERS - THE STATE UNIV., NEW BRUNSWICK, NJ. DEPT. OF BIOLOGICAL SCIENCES.

Response of Algal Populations to Changes in Stream Water Quality,  
W85-01797 1804 5C

### RUTGERS - THE STATE UNIV., NEW BRUNSWICK, NJ. DEPT. OF CHEMICAL AND BIOCHEMICAL ENGINEERING.

In-Situ and On-Site Biodegradation of Industrial Landfill Leachate,  
W85-02769 1806 5D

Rapid Aerobic Biostabilization of High-Strength Industrial Landfill Leachate,  
W85-03870 1808 5D

Anaerobic Treatment of Concentrated Industrial Wastewater,  
W85-04877 1809 5D

### RUTGERS - THE STATE UNIV., NEW BRUNSWICK, NJ. DEPT. OF ENVIRONMENTAL SCIENCE.

Modeling Transport Processes and Differential Accumulation of Persistent Toxic Organic Substances in Groundwater Systems,  
W85-00262 1801 5B

Accumulation of the Trace Elements Lead and Zinc by *Asellus communis* at Three Different pH Levels,  
W85-01795 1804 5B

### RUTGERS - THE STATE UNIV., NEW BRUNSWICK, NJ. DEPT. OF GEOGRAPHY.

Sources, Storages, and Sinks of Fine-Grained Sediments in a Fluvial-Estuuarine System,  
W85-03677 1807 2J

### RUTGERS - THE STATE UNIV., NEW BRUNSWICK, NJ. DEPT. OF GEOLOGICAL SCIENCES.

Sedimentation Processes in an Impoundment, Union Lake, New Jersey,  
W85-06162 1811 2J

### RUTGERS - THE STATE UNIV., NEW BRUNSWICK, NJ. DEPT. OF ZOOLOGY.

Incorporation of Phenol Carbon at Trace Concentrations by Phenol-Mineralizing Microorganisms in Fresh Water,  
W85-04257 1808 5B

### RUTGERS - THE STATE UNIV., NEWARK, NJ. DEPT. OF GEOLOGY.

Asbestos in Lake and Reservoir Waters of Staten Island, New York: Source, Concentration, Mineralogy, and Size Distribution,  
W85-06160 1811 5B

### RUTGERS - THE STATE UNIV., NEWARK, NJ. DEPT. OF ZOOLOGY AND PHYSIOLOGY.

Growth of Phenol-Mineralizing Microorganisms in Fresh Water,  
W85-04256 1808 2H

### RUTGERS - THE STATE UNIV., PISCATAWAY, NJ. COLL. OF ENGINEERING.

Relationships between the Pollutants in the Sediments and in the Water of the Delaware and Karitan Canal,  
W85-01413 1803 5B

### RUTGERS - THE STATE UNIV., PISCATAWAY, NJ. DEPT. OF BIOLOGICAL SCIENCES.

Distributional Patterns of Sunfishes on the New Jersey Coastal Plain,  
W85-00280 1801 2H

Pollution Indicator Species of Macrobenthos in a Coastal Lagoon,  
W85-02757 1806 5C

### RUTGERS - THE STATE UNIV., PISCATAWAY, NJ. DEPT. OF CHEMICAL AND BIOCHEMICAL ENGINEERING.

Microbial Responses to Organic Species in Industrial Landfill Leachate,  
W85-05424 1810 5D

### RUTGERS - THE STATE UNIV., PISCATAWAY, NJ. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.

Modeling for Design of Landfill Bottom Liners,  
W85-03803 1808 5G

### RUTGERS - THE STATE UNIV., PISCATAWAY, NJ. NELSON BIOLOGICAL LAB.

Inhibition of Essential Amino Acid Absorption in Marine Fishes by Mercury,  
W85-05887 1811 5C

### RYERSON POLYTECHNICAL INST., TORONTO (ONTARIO). DEPT. OF APPLIED GEOGRAPHY.

What Value Wetlands,  
W85-01321 1803 2L

### S-CUBED, LA JOLLA, CA.

Pressure Transient Analysis for Two-Phase Geothermal Wells: Some Numerical Results,  
W85-02163 1804 2F

Pressure Buildup Analysis for Two-Phase Geothermal Wells: Application to the Baca Geothermal Field,  
W85-05800 1810 2F

### SACRAMENTO, CA.

Small-Scale Gravity Flow Water Systems in Phrae Province, Thailand,  
W85-03709 1807 5F

### SACRAMENTO MUNICIPAL UTILITY DISTRICT, CA.

Small Hydro Supplements Irrigation Scheme,  
W85-06128 1811 8A

### SAGAMI CHEMICAL RESEARCH CENTER, SAGAMIHARA

New Chemical Approach to the Study of Waters of Mt. Fuji Environs,  
W85-00760 1802 2A

### SAI COMSYSTEMS CORP., EUREKA, CA.

Bumper Crop Yields Growing Problems,  
W85-00277 1801 5G

### SAINT ANDREWS UNIV. (SCOTLAND). DEPT. OF BIOCHEMISTRY AND MICROBIOLOGY.

Model for the Movement of Sewage Effluent, According to Sea State, in a Bay Situation,  
W85-00560 1802 5B

### SAINT OLAF COLL., NORTHFIELD, MN.

Short-Term Variations in Velocity of South Cascade Glacier, Washington, U.S.A.,  
W85-00675 1802 2C

### SALFORD UNIV. (ENGLAND). DEPT. OF CIVIL ENGINEERING.

Variability in Phosphorus Concentrations in North Temperate Lakes: A Case Study of Anthropogenic Forcing,  
W85-02652 1805 5C

### SALFORD UNIV. (ENGLAND). DEPT. OF MATHEMATICS.

Methods of Assessing the Trophic State of Lakes and Reservoirs,  
W85-01437 1803 2H

Pumped-storage Hydropower Schemes: Integral Plume Models for Pumpback Simulations,  
W85-04158 1808 8B

### SALINE WATER CONVERSION CORP., RIYADH (SAUDI ARABIA).

Desalination by the Saline Water Conversion Corporation of Saudi Arabia,  
W85-06691 1812 3A

### SALT RIVER PROJECT, PHOENIX, AZ. WATERSHED DIV.

Determination of Wintertime Cloud Seeding Potential in the Mogollon Rim Area of Arizona,  
W85-04218 1808 2B

### SAMUKAWA PURIFICATION PLANT (JAPAN).

Bacterial Mineralization of Organic Matter in Lake Sagami (in Japanese),  
W85-00529 1802 2H

### SAN DIEGO STATE UNIV., CA. KINETIC SHOCK: SENSITIVITY ANALYSIS.

W85-06037 1811 2E

Water and Sediment Routing Through Curved Channels,  
W85-06040 1811 2E

Nonlinear Response of Coupled Flow-Stress Problems,  
W85-07103 1812 8D

### SAN DIEGO STATE UNIV., CA. DEPT. OF CIVIL ENGINEERING.

Regular Meander Path Model,  
W85-03009 1806 8B

Variation of Flow Resistance Through Curved Channels,  
W85-03788 1808 2E

Meandering of Underfit Streams,  
W85-04280 1808 2E

### SAN JOSE STATE UNIV., CA. DEPT. OF METEOROLOGY.

Collection of Fog Drip,  
W85-05802 1810 2B

### SANDIA NATIONAL LABS., ALBUQUERQUE, NM.

Heuristic Method for Measurement and Characterization of River Meander Wavelength,  
W85-03168 1806 2E

### SAO PAULO UNIV. (BRAZIL). DEPT. DE ECOLOGIA.

Oligomitic Man-Made Lake in Southeastern Brazil,  
W85-05647 1810 2H

### SAO PAULO UNIV. (BRAZIL). DEPT. DE HIDRAULICA.

Capacity Expansion of Sao Paulo Water Supply,  
W85-06034 1811 6A

### SAO PAULO UNIV. (BRAZIL). INST. OCEANOGRAFICO.

Primary Production in Ten Reservoirs in Southeastern Brazil,  
W85-06008 1811 2H

### SAPPI LTD., JOHANNESBURG (SOUTH AFRICA).

Practical Steps Leading Toward the Effluent-Free Mill,  
W85-02652 1811 5D

## ORGANIZATIONAL INDEX

### SEVERN-TRENT WATER AUTHORITY (ENGLAND).

<b>SARGENT AND LUNDY, CHICAGO, IL.</b> Operating Experience with an Integrated Power Plant Wastewater Treatment System, W85-05269	1810 5D	<b>Adsorption of Curium-244: Effects of Dissolved Organics and Sediment Extraction,</b> W85-03857	1808 5B	<b>U.S. Mussel Watch: 1977-1978 Results on Trace Metals and Radionuclides,</b> W85-00669	1802 5B
<b>SASKATCHEWAN RESEARCH COUNCIL, SASKATOON.</b> Effect of Groundwater Inflow on Evaporation from a Saline Lake, W85-01043	1802 2H	<b>Distribution of Dissolved Organic Carbon and Metal-Binding Capacity Among Ultrafilterable Fractions Isolated from Selected Surface Waters of the Southeastern United States,</b> W85-03979	1808 2K	<b>Man-Made Structures on Marine Sediments: Effects on Adjacent Benthic Communities,</b> W85-01895	1804 6G
<b>SASKATCHEWAN UNIV., SASKATOON. COLL. OF ENGINEERING.</b> Saturated-Unsaturated Transient Finite Element Seepage Model for Geotechnical Engineering, W85-04173	1808 8B	<b>Invertebrate Colonization of Submerged Wood in a Cypress-Tupelo Swamp and Blackwater Stream,</b> W85-05120	1810 2H	<b>SCRIPPS INSTITUTION OF OCEANOGRAPHY, SAN DIEGO, CA.</b>	
<b>SASKATCHEWAN UNIV., SASKATOON. DEPT. OF BIOLOGY.</b> Limnology of a Perturbed Highly Saline Canadian Lake, W85-04056	1808 2H	<b>SAVOIE UNIV., CHAMBERY (FRANCE). LAB. D'ECOLOGIE.</b> Occurrence of DNA in River Sediment: Its Meaning and Relations With Benthos Respiration, Organic Load and Macroinvertebrates Biomass, W85-04699	1809 5C	<b>Mixing and the Dynamics of the Deep Chlorophyll Maximum in Lake Tahoe,</b> W85-02223	1805 2H
Effects of Acute Exposure to Acidified Water on the Behavioral Response of Fathead Minnows, <i>Pimephales promelas</i> , to Chemical Feeding Stimuli, W85-06382	1812 5C	<b>SCHULZE (OSWALD) G.M.B.H. UND CO. K.G., GLADBECK (GERMANY, F.R.).</b> Design and Performance of Egg-Shaped Digesters for Combined Sludge and Industrial Wastewater Treatment, W85-05550	1810 5D	<b>SCS ENGINEERS, INC., LONG BEACH, CA.</b> Process Design Manual for Land Application of Municipal Sludge,	1810 5D
<b>SASKATCHEWAN UNIV., SASKATOON. DEPT. OF CIVIL ENGINEERING.</b> Steady State Model for Flow in Saturated-Unsaturated Soils, W85-03424	1807 2F	<b>SCIENCE AND EDUCATION ADMINISTRATION, MANDAN, ND.</b> <b>NORTHERN GREAT PLAINS RESEARCH CENTER.</b> Effect of Disturbed Soil Thickness on Soil Water Use and Movement under Perennial Grass, W85-05190	1810 2I	<b>SEATTLE DEPT. OF WATER, WA.</b> Old Water-New Water: Setting Equitable Water Rates for Suburban Customers, W85-03612	1807 6C
Scour Control at Outlook Bridge - A Case Study, W85-05454	1810 2J	<b>SCIENCE AND EDUCATION ADMINISTRATION, UNIVERSITY PARK, PA.</b> <b>NORTHEAST WATERSHED RESEARCH CENTER.</b> Calculation of Internodal Conductances for Unsaturated Flow Simulations: A Comparison, W85-02872	1806 2G	<b>SERVICE DES EAUX, SERVICES INDUSTRIELS DE GENEVE (SWITZERLAND).</b> Planning, Implementation of Directives and Pipelaying Standards, W85-01998	1804 6B
<b>SASKATCHEWAN UNIV., SASKATOON. DEPT. OF GEOGRAPHY.</b> Regionalization and Prediction of Floods in the Fraser River Catchment, B.C., W85-05002	1810 2E	<b>SCIENCE AND EDUCATION ADMINISTRATION, OAK RIDGE, TN.</b> Mathematical Model of Erosion and Deposition on a Watershed, W85-03366	1807 2J	<b>SETH G.N. KHALSA COLL., SRI GANGANAGAR (INDIA). POST-GRADUATE DEPT. OF CHEMISTRY.</b> Investigation of Trace Metals by Stripping Voltammetry in the Effluent of Bathinda Thermal Power Station, W85-00511	1802 5A
<b>SASKATCHEWAN UNIV., SASKATOON. DEPT. OF SOIL SCIENCE.</b> Dynamics and Mechanisms of Arsenite Oxidation by Freshwater Lake Sediments, W85-02080	1804 5B	<b>SCIENCE AND EDUCATION ADMINISTRATION, UNIVERSITY PARK, PA.</b> Effect of Agricultural Land Use on Ground-Water Quality in a Small Pennsylvania Watershed, W85-04642	1809 5B	<b>SEVERN-TRENT WATER AUTHORITY, BIRMINGHAM (ENGLAND).</b> River Outfalls, Estuaries and the Marine Environment, W85-01393	1803 5B
Aeration of Anoxic Hypolimnetic Water: Effects on Nitrogen and Phosphorus Concentrations, W85-02626	1805 5G	<b>SCIENCE APPLICATIONS, INC., OAK RIDGE, TN.</b> Comparison of Growth, Population Structure, and Food of the Creek Chub <i>Semotilus atromaculatus</i> in Undisturbed and Surface-Mining-Disturbed Streams in Tennessee, W85-02749	1806 5C	<b>Enteric Virus Levels in Wastewater Effluents and Surface Waters in the Severn Trent Water Authority 1979-1981,</b> W85-01718	1804 5B
Dynamics of Desorption of Mercury Absorbed on Poorly Crystalline Oxides of Manganese, Iron, Aluminium, and Silicon, W85-02627	1805 5B	<b>SCIENTIFIC AND TECHNOLOGICAL INFORMATION INST., BEIJING (CHINA).</b> Large Hydropower Stations in China, W85-04951	1809 6B	<b>Changes in the Organic Fraction of Leachate from Two Domestic Refuse Sites on the Sherwood Sandstone, Nottinghamshire,</b> W85-03771	1808 5B
Evaluation of the Erosion Index for the Prairies, W85-06153	1811 2J	<b>SCIENTIFIC RESEARCH ASSOCIATES, INC., GLASTONBURY, CT.</b> Mixing Layer: Deterministic Models of a Turbulent Flow. Part 3. The Effect of Plane Strain on the Dynamics of Streamwise Vortices, W85-00714	1806 5C	<b>Sludge Treatment and Disposal Techniques for Operation of the Coleshill Sludge Destruction Plant, U.K.,</b> W85-04006	1808 5E
<b>SASKATCHEWAN UNIV., SASKATOON. DIV. OF HYDROLOGY.</b> Snowmelt Infiltration to Frozen Prairie Soils, W85-03765	1807 2A	<b>SCOTT, WILSON, KIRKPATRICK AND PARTNERS, BASINGSTOKE (ENGLAND).</b> Post-Construction Deformation of Rockfill Dams, W85-02257	1805 8D	<b>SEVERN-TRENT WATER AUTHORITY (ENGLAND).</b> Survey of Trade Effluent Sampling for Charging in the Severn-Trent Water Authority, W85-03886	1808 6C
Simulating Infiltration into Frozen Prairie Soils in Streamflow Models, W85-06702	1812 2G	<b>WATER RECLAMATION AND RIVER MANAGEMENT IN THE TAME BASIN,</b> W85-04460	1809 5G	<b>Pollution Control in the Humber Estuary,</b> W85-04453	1809 5G
<b>SAVANNAH RIVER ECOLOGY LAB., AIKEN, SC.</b> Non-Equilibrium Approach to Modeling Toxic Metal Speciation in Acid, Aquatic Systems, W85-00258	1801 5B	<b>Problems Associated with the Disposal of Trade Effluent to Sewers - Charging and Control,</b> W85-04463	1809 5E	<b>Lea Marston Purification Lake: Operational and River-Quality Aspects,</b> W85-04458	1809 5G
Application of Risk and Uncertainty Analysis Techniques to a Heavy Metal Speciation Model, W85-00259	1801 5B	<b>Water Reclamation and River Management in the Tame Basin,</b> W85-04460	1809 5G	<b>Optimization of Coleshill Activated-Sludge Plant Operating Conditions,</b> W85-04590	1809 5D
Effects of Low Concentrations of Particulates from Paper Mill Effluent on the Macroinvertebrate Community of a Fast-Flowing Stream, W85-01003	1802 5C	<b>SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CA.</b> Metal and Transuranic Records in Mussel Shells, Byssal Threads and Tissues, W85-00666	1802 5A		

## ORGANIZATIONAL INDEX

### SEVERN-TRENT WATER AUTHORITY (ENGLAND).

Aerobic Treatment in 'Oxitron' Biological Fluidized Bed Plant at Coleshill, W85-04593	1809	5D	SHERARD (J.L.), SAN DIEGO, CA. Trends and Debatable Aspects in Embankment Dam Engineering, W85-04032	1808	8D
<b>SHANDON COLL. OF OCEANOGRAPHY (CHINA). DEPT. OF MARINE BIOLOGY.</b> Survival and Viability of Nonculturable Escherichia coli and Vibrio cholerae in the Estuarine and Marine Environment, W85-02186	1805	5B	<b>SHERBROOKE UNIV. (QUEBEC). DEPT. OF CIVIL ENGINEERING.</b> Seasonal Variations of Phosphate Species in Wastewater, W85-02823	1806	5D
<b>SHANDONG COLL. OF OCEANOLOGY (CHINA).</b> Relationships Between Electrical Conductivity, Chlorinity and Density of Coastal Waters of China (in Chinese), W85-02382	1805	2L	<b>SHIGA UNIV., OTSU (JAPAN). DEPT. OF EARTH SCIENCE.</b> Circular Currents in the North Basin of Lake Biwa (II) - Comparisons Between Observed Current and Geostrophic Current - (in Japanese), W85-05999	1811	2H
<b>SHEAFFER AND ROLAND, INC., CHICAGO, IL.</b> Circular vs. Linear Water Systems, Going Back to Nature's Way, W85-03039	1806	6A	<b>SHIMANE UNIV., MATSUE (JAPAN). DEPT. OF AGRICULTURAL CHEMISTRY.</b> Quantitative Analysis of Phosphorus Cycle in the Shallow Brackish Lake Nakanoumi, Japan, W85-00761	1802	2H
<b>SHEFFIELD UNIV. (ENGLAND). DEPT. OF CHEMICAL ENGINEERING AND FUEL TECHNOLOGY.</b> Simulation of Dispersion of Heavy Particles in Confined Turbulent Flows, W85-00197	1801	2J	<b>SHIMONOSEKI UNIV. OF FISHERIES (JAPAN).</b> Studies on Performance of Desalination Plant by Reverse Osmosis System - II; Effects of Inhibition of Bacterial Growth with NaHSO3 on Performance of Plant (in Japanese), W85-02838	1806	3A
<b>SHEFFIELD UNIV. (ENGLAND). DEPT. OF GEOGRAPHY.</b> Indices of Flow Asymmetry in Natural Streams: Definition and Performance, W85-02456	1805	2E	<b>SHIZUOKA UNIV., HAMAMATSU (JAPAN). DEPT. OF APPLIED CHEMISTRY.</b> Spectrophotometric Determination of Nitrite in Waters with 5,7-Dihydroxy-4-imino-2-oxochroman, W85-02833	1806	5A
<b>SHEFFIELD UNIV. (ENGLAND). DEPT. OF ZOOLOGY.</b> Behavioural Bioassay for Impaired Sea-Water Quality Using the Plantigrades of the Common Mussel <i>Mytilus edulis</i> L.: The Effect of pH on Copper Speciation and Toxicity, W85-00879	1802	5C	<b>SHUWAIKH POWER AND WATER PRODUCTION STATION (KUWAIT).</b> Marginal Operation Field of Existing MSF Distillation Plants, W85-03976	1808	3A
<b>SHELL CHEMICALS U.K. LTD., LONDON (ENGLAND).</b> Biodegradability of Two Primary Alcohol Ethoxylate Nonionic Surfactants Under Practical Conditions, and the Toxicity of the Biodegradation Products to Rainbow Trout, W85-04487	1809	5D	<b>SIENA UNIV. (ITALY). DIPT. DI BIOLOGIA AMBIENTALE.</b> Mercury Pollution in Marine Sediments Near a Chloralkali Plant: Distribution and Availability of the Metal, W85-03030	1806	5B
<b>SHELL DEVELOPMENT CO., HOUSTON, TX.</b> Biodegradation of Sulfolane in Refinery Wastewater, W85-05275	1810	5D	<b>SIMON FRASER UNIV., BURNABY (BRITISH COLUMBIA). DEPT. OF BIOLOGICAL SCIENCES.</b> Acephate in Rainbow Trout ( <i>Salmo gairdneri</i> ): Acute Toxicity, Uptake, Elimination, W85-00169	1801	5C
<b>SHELL RESEARCH LTD., SITTINGBOURNE (ENGLAND). SITTINGBOURNE RESEARCH CENTRE.</b> Evaluation of a Rapid Range-Finding Test for Use in Acute Lethality Studies with Fish, W85-01450	1803	5A	Effects of Acephate (Orthene) on Development and Survival of the Salamander, <i>Ambystoma gracile</i> (Baird), W85-00170	1801	5C
Persistence and Effects of Chemicals in Small Enclosures in Ponds, W85-02207	1805	5C	In Vitro Effects of Acephate on Acetylcholinesterase Activity in the Brain and Gills of Rainbow Trout, <i>Salmo gairdneri</i> , W85-00171	1801	5C
Fate and Biological Effects of Methyl Parathion in Outdoor Ponds and Laboratory Aquaria; I. Fate, W85-02945	1806	5B	<b>SIMON FRASER UNIV., BURNABY (BRITISH COLUMBIA). DEPT. OF GEOGRAPHY.</b> Lateral Migration Rates of River Bends, W85-03776	1808	2J
Fate and Biological Effects of Methyl Parathion in Outdoor Ponds and Laboratory Aquaria; II. Effects, W85-02946	1806	5C	<b>SIMONS, LI AND ASSOCIATES, INC., FORT COLLINS, CO.</b> Salt River Channelization Project: Model Study, W85-05783	1810	2J
Toxicity of a New Pyrethroid Insecticide, WL85871, to Rainbow Trout, W85-04353	1808	5C	Modeling Physics and Chemistry of Contaminant Transport in Three-Dimensional Unsaturated Groundwater Flow, W85-06301	1812	2F
Contamination and Effects in Freshwater Ditches Resulting from an Aerial Application of Cypermethrin, W85-06742	1812	5C			

## ORGANIZATIONAL INDEX

**SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY, RAPID CITY.**

Seasonal and Annual Variation in the Precipitation Chemistry of the Rhode River Ecosystem, W85-05355	1810 2K	<b>SOCIETE LYONNAISE DES EAUX ET DE L'ECLAIRAGE, PARIS (FRANCE).</b> How Safe Are Organic Polymers in Water Treatment, W85-00711	1802 5F	<b>SOUTH AUSTRALIA ENGINEERING AND WATER SUPPLY DEPT., SALISBURY, STATE WATER LABS.</b> Henry's Law Constants for the Trihalomethanes: Effects of Water Composition and Temperature, W85-01124	1803 5F
Geology and Soils of the Rhode River Watershed, W85-05356	1810 2G	Study Cases of Operative Conditions of Municipal Treatment by Lagooning (Etude des Conditions de Fonctionnement et d'Exploitation de Quelques Cas Concrets de Traitement d'Eaux Residuaires Urbaines par Lagunage), W85-01976	1804 5D	Gel Permeation Chromatography of Humic Acid; Problems Associated with Sephadex Gel, W85-02920	1806 5A
Seasonal and Annual Variation in the Temperature and Moisture Content of Solids on Three Single Land-Use Rhode River Watersheds, W85-05357	1810 2G	Potential Use of Enzymes as Catalysts in Drinking Water for the Oxidation of Taste Causing Substances, W85-02021	1804 5F	<b>SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION, CLEMSON.</b> Irrigation of Swine Lagoon Effluent onto Pine and Hardwood Forests, W85-04741	1809 5D
Nutrient Composition of the Soils of Three Single-Land-Use Rhode River Watersheds, W85-05358	1810 2A	Combination of Continuous Mode Liquid-Liquid Extraction with Coupled GC-MS for the Analysis of Pesticides in Water (Combinaison D'Une Cellule D'Extraction Liquide-Liquide en Continu et D'Un Couplage CG-MS en Vue De L'Analyse Des Pesticides Dans Les Eaux), W85-02913	1806 5A	<b>SOUTH CAROLINA UNIV., COLUMBIA.</b> <b>BELLE W. BARUCH INST. FOR MARINE BIOLOGY AND COASTAL RESEARCH.</b> Microbially Mediated Manganese Oxidation in a Freshwater Lake, W85-01598	1803 2H
Seasonal and Annual Variation in Rhode River Watershed Hydrology, W85-05359	1810 2B	<b>SOIL AND IRRIGATION RESEARCH INST., PRETORIA (SOUTH AFRICA).</b> Resistances to Water Flow through the Soil-Plant System, W85-00216	1801 2I	Nitrogen and Phosphorus Concentrations within North Inlet, South Carolina - Speculation as to Sources and Sinks, W85-02657	1805 2L
Discharge of Solids from Rhode River Subwatersheds, W85-05360	1810 5B	Leaf Water and Turgor Potential Threshold Values for Leaf Growth of Wheat, W85-03362	1807 2I	Summertime Net Transport of Dissolved Oxygen, Salt and Heat in a Salt Marsh Basin, North Inlet, S.C., W85-03108	1806 2L
Seasonal and Annual Variation in Nutrient Discharge from Rhode River Watersheds and Certain Stream Water Quality Parameters, W85-05361	1810 5B	<b>SOIL CONSERVATION SERVICE, CHESTER, PA.</b> Dissecting a Dam, W85-04027	1808 8D	Oyster Reefs as Processors of Estuarine Materials, W85-04483	1809 2L
Seasonal and Annual Variation in the Discharge of Metallic Cations from Rhode River Watersheds, W85-05362	1810 5B	<b>SOIL CONSERVATION SERVICE, OTTAWA, IL.</b> Growth Responses of Fish to Changing Environmental Conditions in a South Carolina Cooling Reservoir, W85-01496	1803 6G	<b>SOUTH CAROLINA UNIV., COLUMBIA.</b> <b>DEPT. OF CHEMISTRY.</b> Natural Organics as Fluorescent Tracers of River-Sea Mixing, W85-00667	1802 2L
<b>SMITHSONIAN TROPICAL RESEARCH INST., BALBOA (PANAMA).</b> Occurrence and Toxicity of Herbicides in Reef Building Corals, W85-03313	1807 5C	<b>SOIL CONSERVATION SERVICE, PORTLAND, OR.</b> Freeze-Thaw and Consolidation Effects on Strength of a Wet Silt Loam, W85-06082	1811 2J	<b>SOUTH CAROLINA UNIV., COLUMBIA.</b> <b>DEPT. OF ENVIRONMENTAL HEALTH SCIENCES.</b> Determination of Optimum Minimum Flow from a Dam by Using Energy Analysis, W85-02297	1805 4A
Fish Communities of Midwestern Rivers: A History of Degradation, W85-06565	1812 5C	<b>SOIL CONSERVATION SERVICE, WASHINGTON, DC.</b> Using Plastic Pipe Properly in Conservation Structures, W85-04342	1808 8G	<b>SOUTH CAROLINA UNIV., COLUMBIA.</b> <b>DEPT. OF GEOGRAPHY.</b> Nontidal Wetland Mapping in South Carolina Using Airborne Multispectral Scanner Data, W85-03301	1807 7B
<b>SOCIETE D'ENERGIE DE LA BAIE JAMES, MONTREAL (QUEBEC).</b> Stress-Deformation Predictions for the LG 4 Main Dam, W85-00141	1801 8D	<b>SOIL CONSERVATION SERVICE, WASHINGTON, DC. ENGINEERING DIV.</b> Safety of Non-Federal Dams: Who's Responsible, W85-00944	1802 8A	<b>SOUTH CAROLINA UNIV., COLUMBIA.</b> <b>DEPT. OF GEOLOGY.</b> 226Ra and 228Ra in the Mixing Zones of the Pee Dee River-Winyah Bay, Yangtze River and Delaware Bay Estuaries, W85-01912	1804 2L
Seepage Through Till Foundations of Dams of the Eastmain - Opinaca - La Grande Division, W85-03418	1807 2F	<b>SOIL ENERGY RESEARCH INST., GOLDEN, CO.</b> Evaluation of Pumps and Motors for Photovoltaic Water Pumping Systems, W85-06988	1812 8C	Radium Fluxes from a Salt Marsh, W85-05468	1810 2L
<b>SOCIETE DEGREMONT, RUEIL-MALMAISON (FRANCE).</b> Potable Water Treatment in Tropical Countries: Recent Experiences and Some Technological Trends, W85-02022	1804 5F	<b>SORIGONA, INC., WOODBURY, NY.</b> Anaerobic-Aerobic Treatment of a Wheat Starch Plant Effluent: A Case History, W85-05564	1810 5D	Origin of Shape Changes of Sand and Silt in a High-Gradient Stream System, W85-05618	1810 2J
Influence of Recently Drowned Terrestrial Vegetation on the Quality of Water Stored in Impounding Reservoirs, W85-05646	1810 5G	<b>SOUTH DAKOTA ARCHAEOLOGICAL RESEARCH CENTER, FORT MEADE.</b> Report of the Class I and II Cultural Resources Investigations of a Portion of the Cendak Water Project Area, Eastern South Dakota, Volume I. Archaeological Sampling Survey of the East Half of the Proposed Cendak Irrigation System, W85-04196	1808 6E		
<b>SOCIETE GENERALE POUR L'INDUSTRIE INGENIEURS-CONSEILS, GENEVA (SWITZERLAND).</b> Aeration of the Discharge Jet in Large Flood-Control Facilities (Die Belüftung des Abflussstrahls bei grossen Hochwasserrückhalteanlagen), W85-01262	1803 8A	<b>SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY, RAPID CITY.</b> Use of Long Solids Retention Times to Improve the Activated Sludge Biodegradation of a Complex Waste, W85-05551	1810 5D		
Drag Coefficient on Pyramidal Baffle Blocks, W85-05819	1810 8B	Water Use Efficiency of Wheat in a Mediterranean-Type Environment. I The Relation Between Yield, Water Use and Climate, W85-06099	1811 3F		
<b>SOCIETE GRENOBLOISE D'ETUDES ET D'APPLICATIONS HYDRAULIQUES (FRANCE).</b> Hydraulic Problems Posed by Direct-Cycle TES Stations Offshore (Problemes Hydrauliques Poses par les Centrales ETM a Cycle Direct au Large), W85-00386	1801 8C	Water Use Efficiency of Wheat in a Mediterranean-Type Environment. II Some Limitations to Efficiency, W85-06100	1811 2I		

## ORGANIZATIONAL INDEX

### SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY, RAPID CITY, DEPT. OF

#### SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY, RAPID CITY, DEPT. OF GEOLOGY AND GEOLOGICAL ENGINEERING.

Flood-plain Management Program in Rapid City, South Dakota,  
W85-01643 1804 2E

#### SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY, RAPID CITY, INST. OF ATMOSPHERIC SCIENCES.

Area-Time Integral as an Indicator for Convective Rain Volumes,  
W85-01542 1803 2B

#### SOUTH DAKOTA STATE UNIV., BROOKINGS, DEPT. OF BIOLOGY.

Possible Relationships Between Surface Water Chemistry and Aquatic Plants in the Northern Great Plains,  
W85-04697 1809 2H

#### SOUTH DAKOTA STATE UNIV., BROOKINGS, DEPT. OF PLANT SCIENCE.

Drop Size Distributions for a Low Pressure Spray Type Agricultural Sprinkler,  
W85-06096 1811 3F

#### SOUTH WATER FILTRATION PLANT, CHICAGO, IL.

Postprecipitation in Distribution Systems,  
W85-03627 1807 5F

#### SOUTHAMPTON UNIV. (ENGLAND), COMPUTATIONAL MECHANICS INST.

Diffusion-Convection Problems Using Boundary Elements,  
W85-04160 1808 2A

#### SOUTHAMPTON UNIV. (ENGLAND), DEPT. OF CHEMISTRY.

Behaviour of Dissolved Arsenic in the Estuary of the River Beaulieu,  
W85-03631 1807 5B

Studies of the Halogenation of Dissolved Organic Material During the Chlorination of Saline Cooling Waters, the Model Compounds Resorcinol Diacetate and Resorcinol Dimethyl Ether,  
W85-04979 1810 5F

#### SOUTHAMPTON UNIV. (ENGLAND), DEPT. OF GEOGRAPHY.

Box-Jenkins Transfer Function Models Applied to Suspended Sediment Concentration-Discharge Relationships in a Proglacial Stream,  
W85-00112 1801 2J

#### SOUTHAMPTON WATER AUTHORITY (ENGLAND).

Development and Use of a Theoretical Mathematical Model for the Medway Estuary,  
W85-04450 1809 2L

#### SOUTHEASTERN FOREST EXPERIMENT STATION, ASHEVILLE, NC. COWEETA HYDROLOGIC LAB.

Monitoring Herbicide Residues in Springflow After an Operational Application of Hexazinone,  
W85-00546 1802 5B

Soil Losses from Roadbeds and Cut and Fill Slopes in the Southern Appalachian Mountains,  
W85-03318 1807 5B

#### SOUTHEASTERN FOREST EXPERIMENT STATION, CHARLESTON, SC.

Growth and Nutrient Status of Loblolly Pine Seedlings in Relation to Flooding and Phosphorus,  
W85-03968 1808 2I

#### SOUTHEASTERN LOUISIANA UNIV., HAMMOND, DEPT. OF BIOLOGICAL SCIENCES.

Checklist of the Species of Fishes in Lake Maurepas, Louisiana,  
W85-06488 1812 2H

#### SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS, LOS ANGELES, WATER QUALITY AND WASTE MANAGEMENT PROGRAM.

Successful Water Quality Planning: An Areawide Perspective,  
W85-05952 1811 5G

#### SOUTHERN CALIFORNIA COASTAL WATER RESEARCH PROJECT AUTHORITY, LONG BEACH.

Detoxification/Toxicification of Cadmium in Scorpionfish (*Scorpaena guttata*): Acute Exposure,  
W85-00878 1802 5A

Distribution of Fish in the Virgin River, a Tributary of the Lower Colorado River,  
W85-05710 1810 2H

#### SOUTHERN CALIFORNIA METROPOLITAN WATER DISTRICT, LA VERNE.

Scuba Diving: A Tool for Managing Water Quality,  
W85-03622 1807 5F

Blending Chloraminated and Chlorinated Waters,  
W85-05476 1810 5F

Tastes and Odors: The Flavor Profile Method,  
W85-06582 1812 5F

#### SOUTHERN CALIFORNIA METROPOLITAN WATER DISTRICT, LA VERNE, WATER QUALITY BRANCH.

Determination of Subnanogram per Liter Levels of Earthy-Musty Odorants in Water by the Salted Closed-Loop Stripping Method,  
W85-01126 1803 5A

#### SOUTHERN CALIFORNIA METROPOLITAN WATER DISTRICT, LOS ANGELES.

Controlling Attached Blue-Green Algae with Copper Sulfate,  
W85-00703 1802 5G

Determining Internal Corrosion Potential in Water Supply Systems (Committee Report).  
W85-02403 1805 5F

Application of Science to Water Supply Projects in Developing Countries,  
W85-06575 1812 5F

#### SOUTHERN FLORIDA WATER MANAGEMENT DISTRICT, WEST PALM BEACH, FL.

Electronic Transducer for Continuous Water Level Monitoring,  
W85-03371 1807 7B

#### SOUTHERN ILLINOIS UNIV. AT CARBONDALE.

Relative Effects of Chlorine and Ammonia from Wastewater Treatment Facilities on Stream Biota,  
W85-06342 1812 5C

Consumer Attitudes Toward Public Water Supply Quality: Dissatisfaction and Alternative Water Sources,  
W85-06347 1812 6D

#### SOUTHERN ILLINOIS UNIV. AT EDWARDSVILLE.

A/C (Araphidinae/Centrales) Ratio in High and Low Alkalinity Lakes in Eastern Minnesota,  
W85-01461 1803 2H

#### SOUTHERN ILLINOIS UNIV. AT EDWARDSVILLE, DEPT. OF BIOLOGICAL SCIENCES.

Relationship Between Fossil Diatom Assemblages and Limnological Conditions,  
W85-00409 1801 2H

#### SOUTHERN ILLINOIS UNIV. AT EDWARDSVILLE, DEPT. OF CIVIL ENGINEERING.

Sheetpile Interlock Tension in Cellular Cofferdams,  
W85-01872 1804 8A

#### SOUTHERN RESEARCH INST., BIRMINGHAM, AL.

Rapid, Sensitive, Gas Chromatographic Determination of Diethyl Malonate and Diethyl Succinate in Water Facilitated by Sorbent-Tube Preconcentration,  
W85-00167 1801 5A

#### SOUTHERN SPHERE MINING AND DEVELOPMENT, RANDBURG (SOUTH AFRICA).

Braided-Stream Deposition in the Mpembeni River, Zululand,  
W85-00217 1801 2J

#### SOUTHERN WATER AUTHORITY, CHATHAM (ENGLAND), KENT DIV.

Growth of *Cladophora glomerata* in a River Receiving Sewage Effluent,  
W85-01723 1804 5C

#### SOUTHERN WATER AUTHORITY, EASTLEIGH (ENGLAND).

Lumped Parameter Model of a Chalk Aquifer-Stream System in Hampshire, United Kingdom,  
W85-00323 1801 2A

#### SOUTHERN WATER AUTHORITY, WORTHING (ENGLAND).

Recharge into a Shingle Beach,  
W85-01175 1803 2F

Nutrient Removal Trials and Bioassay Evaluation at Budds Farm Sewage-Treatment Works, Havant,  
W85-04526 1809 5D

#### SOUTHWEST RESEARCH INST., SAN ANTONIO, TX.

Assessment of Fluid Control Liner Installation Procedures,  
W85-05250 1810 5D

#### SOUTHWEST TEXAS STATE UNIV., SAN MARCOS, AQUATIC STATION.

Leaf Litter Processing Rates in Four Texas Streams,  
W85-02247 1805 2H

Toxicity of Nitrite to Channel Catfish (*Ictalurus punctatus*), Tilapia (*Tilapia aurea*), and Large-mouth Bass (*Micropterus salmoides*): Evidence for a Nitrite Exclusion Mechanism,  
W85-03825 1808 5C

#### SPLIT UNIV. (YUGOSLAVIA), FACULTY OF ENGINEERING.

Rainfall as the Basis for Urban Runoff - Experience and Practice in Yugoslavia,  
W85-01682 1804 2B

#### SPRINGFIELD CITY WATER, LIGHT AND POWER, IL.

Accountability Management Brings Revenue Increases,  
W85-02486 1805 6B

#### SRI LANKA UNIV., PERADENIYA, DEPT. OF GEOLOGY.

Geochemistry of Well Water and Cardiovascular Diseases in Sri Lanka,  
W85-01674 1804 5C

Distribution of Nitrates in the Potable Waters of Sri Lanka,  
W85-02015 1804 5B

## ORGANIZATIONAL INDEX

### STATE UNIV. OF NEW YORK COLL. AT CORTLAND.

<b>SRI LANKA UNIV., PERADENIYA. DEPT. OF ZOOLOGY.</b>	Biotransformation of Tetrachloroethylene to Trichloroethylene, Dichloroethylene, Vinyl Chloride, and Carbon Dioxide under Methanogenic Conditions, W85-07127	1812 5B	Biology, Ecology and Chemistry of a Floc-Like Sediment in Lake Erie, W85-02642	1805 2H
<b>SRI VENKATESWARA UNIV., TIRUPATI (INDIA). DEPT. OF BOTANY.</b>	Differential Performance of Cleome gynandra L. (C4) and C. speciosa L. (C3) under Water, Stress and Recovery, W85-03219	1807 2I	Physical Model Study of Lake Constance, W85-04072	1808 2H
<b>SRI VENKATESWARA UNIV., TIRUPATI (INDIA). DEPT. OF ZOOLOGY.</b>	Combined Action of Carbaryl and Phenthione on Tissue Lipid Derivatives of Murrel, Channa punctatus (Bloch), W85-05813	1810 5C	<b>STATE UNIV. OF NEW YORK AT BUFFALO. DEPT. OF CHEMICAL ENGINEERING.</b>	
<b>SRI VENKATESWARA UNIV., TIRUPATI (INDIA). PESTICIDE AND INDUSTRIAL TOXICOLOGY CENTRE.</b>	Effect of Cupric Chloride on Oxidative Metabolism in the Freshwater Teleost, Tilapia mossambica, W85-00271	1801 5C	Optimal Design of Fluidized Bed Bioreactors, W85-07043	1812 5D
<b>STADTWERKE PFORZHEIM (GERMANY, F.R.).</b>	Increasing Interest of Public Electricity Suppliers in Micro Power Plants (Aufleben kleiner Wasserkrafe auch beim offentlichen Elektrizitätsversorgungsunternehmen), W85-04628	1809 6C	<b>STATE UNIV. OF NEW YORK AT BUFFALO. DEPT. OF CIVIL ENGINEERING.</b>	
<b>STANDARD OIL CO. (OHIO), CLEVELAND.</b>	Petroleum Refinery Stormwater Run-Off Study, W85-05572	1810 2A	Improve Operation or Build New Projects, W85-01570	1803 6B
<b>STANFORD UNIV., CA. DEPT. OF APPLIED EARTH SCIENCES.</b>	Advection-Dispersion Interpretation of Tracer Observations in an Aquifer, W85-00326	1801 4B	Aerobic Fluidized Bed Whey Treatment, W85-05254	1810 5D
<b>STANFORD UNIV., CA. DEPT. OF CIVIL ENGINEERING.</b>	Identification of Nonionic Detergents by GC/CI-MS: I. A Complementary Method or an Attractive Alternative to GC/EI-MS and Other Methods, W85-01955	1804 5A	Rational Design Parameters for Ammonia Conversion in Water Hyacinth Treatment Systems, W85-07052	1812 5D
Occurrence and Distribution of Organic Chemicals in Two Landfill Leachate Plumes, W85-03667	1807 5B	<b>STATE UNIV. OF NEW YORK AT BINGHAMTON. DEPT. OF BIOLOGICAL SCIENCES.</b>		
Performance Characteristics of the Anaerobic Baffled Reactor, W85-04495	1809 5D	Determination of Chlorophenols in Waste Water Using C18 Reverse-Phase Enrichment Prior to High Resolution Gaschromatography - Mass Spectrometry, W85-06763	1812 5A	
Leaching of Tetrachloroethylene from Vinyl-Lined Pipe, W85-04963	1809 5F	<b>STATE UNIV. OF NEW YORK AT BINGHAMTON. DEPT. OF GEOLOGICAL SCIENCES.</b>		
Organic Contaminant Behavior During Rapid Infiltration of Secondary Wastewater at the Phoenix 23rd Avenue Project, W85-05335	1810 5D	Carbon Balance for Two Sphagnum Mosses: Water Balance Resolves a Physiological Paradox, W85-03729	1807 2I	
Circulation Structure in a Stratified Cavity Flow, W85-05787	1810 2H	<b>STATE UNIV. OF NEW YORK AT BINGHAMTON. DEPT. OF GEOLOGICAL SCIENCES.</b>		
Energy Requirements for Air Stripping Trihalomethanes, W85-06493	1812 5F	Simple Mass Transport Model for Metal Uptake by Marine Macroalgae Growing at Different Rates, W85-03831	1808 5B	
Transport of Organic Contaminants in Groundwater, W85-06704	1812 5B	Ice Jam Prediction Model as a Tool in Floodplain Management, W85-05504	1810 2C	
		Silver Complexation in River Waters of Central New York, W85-07120	1812 5A	
		<b>STATE UNIV. OF NEW YORK AT BUFFALO. DEPT. OF BIOLOGICAL SCIENCES.</b>		
		Behavioral Thermoregulation of Largemouth Bass, Micropterus salmoides, and Bluegill, Lepomis macrochirus, in a Nuclear Reactor Cooling Reservoir, W85-01495	1803 5C	
		<b>STATE UNIV. OF NEW YORK COLL. AT CORTLAND.</b>		
		Influence of Light on the Alkaline Phosphatase Activity of <i>Selenastrum capricornutum</i> (Chlorophyceae) in Streams, W85-04849	1809 2H	

## ORGANIZATIONAL INDEX

### STATE UNIV. OF NEW YORK COLL. AT OSWEGO. COLL. OF ARTS AND SCIENCE.

#### STATE UNIV. OF NEW YORK COLL. AT OSWEGO. COLL. OF ARTS AND SCIENCE.

Rain Chemistry under the Plume from an Oil-Fired Power Plant - A Case Study,  
W85-01086 1802 5B

#### STATE UNIV. OF NEW YORK COLL. AT PLATTSBURGH. CENTER FOR EARTH AND ENVIRONMENTAL SCIENCE.

Integrated Use of Physical and Mathematical Models to Evaluate Ecological Effects,  
W85-05699 1810 5C

#### STATE UNIV. OF NEW YORK COLL. OF ENVIRONMENTAL SCIENCE AND FORESTRY, SYRACUSE.

Resources of the Tug Hill Region,  
W85-00044 1801 6D

Water Supply Source Protection Rules and Regulations Project,  
W85-0046 1801 6E

Sulfur Distribution in Lake Sediment Profiles as an Index of Historical Depositional Patterns,  
W85-05865 1811 5B

#### STATENS VATTENFALLSVERK, VÄLLINGBY (SWEDEN).

Investigation into the Failure of a Prestressed Rock Anchor,  
W85-04952 1809 8G

#### STATION BIOLOGIQUE DE LA TOUR DU VALAT, ARLES (FRANCE).

Ecological Survey of Standing Waters in North West Africa: II. Site Descriptions for Tunisia and Algeria,  
W85-00122 1801 2H

Ecological Survey of Standing Waters in North West Africa: III. Site Descriptions for Morocco,  
W85-00123 1801 2H

#### STEPHEN F. AUSTIN STATE UNIV., NACOGDOCHES, TX. SCHOOL OF FORESTRY.

Forests and Other Factors Associated with Streamflows in East Texas,  
W85-03137 1806 2E

#### STEVENS INST. OF TECH., HOBOKEN, NJ. DEPT. OF OCEAN ENGINEERING.

Moisture Transport in a Solid Waste Column,  
W85-02276 1805 5B

#### STICHTING VOOR BODEMKARTERING, WAGENINGEN (NETHERLANDS).

Nitrogen Leaching During Sprinkler Irrigation of a Dutch Clay Soil,  
W85-03480 1807 5G

#### STICHTING VOOR FUNDAMENTEEL ONDERZOEK DER MATERIE, AMSTERDAM (NETHERLANDS). INST. VOOR ATOOM EN MOLECULYSICA.

Pyrolysis Mass Spectrometry of Some *Scirpus* Species and Their Decomposition Products,  
W85-01591 1803 2H

#### STIRLING UNIV. (SCOTLAND). DEPT. OF BIOLOGY.

Uptake and Metabolism by Goldfish *Carassius auratus* of Pentachloro-2-(Chloromethyl Sulphonamido)Diphenyl Ether (6-PCSD), the Major Component and Active Ingredient of the Mothproofing Agent, Eulan WA New,  
W85-03048 1806 5A

Effect of Temperature and Salinity on the Toxicity of Chromium to Three Estuarine Invertebrates (*Corophium volutator*, *Macoma balthica*, *Nereis diversicolor*),  
W85-04083 1808 5C

#### STIRLING UNIV. (SCOTLAND). DEPT. OF ENVIRONMENTAL SCIENCE.

Concentrations and Annual Loading of Dissolved Organic Matter in a Small Moorland Stream,  
W85-02842 1806 5B

#### STOCKHOLM UNIV. (SWEDEN). DEPT. OF ZOOLOGY.

Ecopathization and the Baltic Sea: Causes and Consequences,  
W85-05464 1810 5C

#### STOCKHOLM UNIV. (SWEDEN). INST. OF GENETICS.

Pollution Biomonitoring Programs and the Genetic Structure of Indicator Species,  
W85-05465 1810 5A

#### STONE AND WEBSTER ENGINEERING CORP., BOSTON, MA.

Role of Geological and Geophysical Data in Modeling a Southwestern Alluvial Basin,  
W85-03151 1806 2F

#### STONE AND WEBSTER ENGINEERING CORP., CHERRY HILL, NJ.

Potentiometric Mapping from Incomplete Drill-Stem Test Data: Palo Duro Basin Area, Texas and New Mexico,  
W85-05841 1810 2F

#### STONER ASSOCIATES, CARLISLE, PA.

Water Hammer: Causes and Effects,  
W85-03626 1807 8B

#### STOTTLER, STAGG AND ASSOCIATES, INC., CAPE CANAVERAL, FL.

New Canal and Improvements Avert Stormwater Runoff Problems,  
W85-06836 1812 4A

#### STRABAG BAU-A.G., COLOGNE (GERMANY, F.R.).

Reconstruction of Bituminous Slope Linings at Dams and Pumped-Storage Reservoirs (Regenerierung von Asphaltabdichtungen bei Staudämmen und Pumpspeicherbecken),  
W85-03255 1807 8A

#### STRAFFORD REGIONAL PLANNING COMMISSION, DOVER, NH.

Co-ordinated Approach to Small Hydro Development,  
W85-06131 1811 6A

#### STRAND ASSOCIATES, INC., MADISON, WI.

Application and Effectiveness of Slow Sand Filtration in the United States,  
W85-04405 1808 5F

#### STREICH, LANG, WEEKS AND CARDON, TUCSON, AZ.

Arizona Water Issues: Contrasting Economic and Legal Perspectives,  
W85-04756 1809 6E

#### STROHLEIN GMBH AND CO. 4044 KAARST 1.

Continuous Detection of Pollutants on Surfaces of Running Water (Kontinuierlicher Nachweis von Verunreinigungen auf Oberflächen von fließenden Gewässern),  
W85-05140 1810 5A

#### STUDIESYNDAAT VOOR WATER, ANTWERP (BELGIUM).

Determination of Aliphatic Aldehydes in Waters by High-Performance Liquid Chromatography,  
W85-07164 1812 5A

#### STUTTGART UNIV. (GERMANY, F.R.). ABT. HEIZUNG, LUEFTUNG, KLIMATECHNIK.

Short-Term and Long-Term Effects of Cadmium on Glycogen Reserves and Liver Size in Rainbow Trout (*Salmo gairdneri* Richardson),  
W85-03228 1807 5C

#### STUTTGART UNIV. (GERMANY, F.R.). INST. FUER LEBENSMITTELCHEMIE.

Anion Chromatography of Hydrogen Carbonate, Chloride and Sulphate in Mineral Waters with Comparisons of Methods (Anionen-Chromatographie von Hydrogencarbonat, Chlorid und Sulfat in Mineralwassern mit Methodenvergleichen),  
W85-06757 1812 5A

#### STUTTGART UNIV. (GERMANY, F.R.). INST. FUER SIEDLUNGSWASSERBAU,

WASSERGUTE-UND ABFALLWIRTSCHAFT.

Denitrification in Sewage Treatment Plants - Demand in Regions with Small Carbonate Hardness of the Drinking-Water (Denitrifikation in Klaranlagen - Forderung in Regionen mit geringer Carbonathärte des Trinkwassers),  
W85-03271 1807 5D

#### STUTTGART UNIV. (GERMANY, F.R.). INST. FUER SIEDLUNGSWASSERBAU,

WASSERGUTEWIRTSCHAFT UND ABFALLTECHNIK.

Factors of Simultaneous Consumption and Supply Patterns at Long Distance Drinking Water Supply Systems (Gleichzeitigkeitfaktor und Abnahmekarakteristiken bei Fernwasserversorgungssystemen),  
W85-03248 1807 5F

Wastewater Filtration with the Aid of a Quasi-continuously-fed Compact Filter Facility (Abwasserfiltration mit Hilfe einer quasikontinuierlich betriebenen Kompaktfilteranlage),  
W85-05041 1810 5D

Pilot Scale Studies on Enhanced Biological Phosphorus Removal in an Activated Sludge Treatment Plant with Nitrification and Predenitrification (Untersuchungen über die biologische Phosphor-Elimination in einer halbtechnischen Versuchsanlage mit weitgehender Nitrifikation und vorgesetzter Denitrifikation),  
W85-05042 1810 5D

Influence of NTA on the Remobilization of Metals From Lake and River Sediments (Der Einfluss von NTA auf die Metallrücklösung aus Gewässersedimenten),  
W85-05043 1810 5B

Method for the Determination of COD of Low Loaded Waters (Eine CSB-Methode für Gering Belastete Wasser),  
W85-05044 1810 5A

Wastewater Purification in the Hide Glue Industry (Abwasserreinigung bei der Hautleimindustrie),  
W85-05142 1810 5D

#### STUTTGART UNIV. (GERMANY, F.R.). INST. FUER WASSERBAU.

Dynamic Processes in Pipeline Systems and their Consequences (Dynamische Vorgänge in Rohrleitungen und ihre Auswirkung),  
W85-03265 1807 8C

Pressure Surges in Watersystems of High Pressure Plants (Druckschwankungen im Wassersystem von Hochdruckanlagen),  
W85-03266 1807 8C

Multi-Purpose Projects for Water Storage and Aqueducts in Baden-Württemberg (Mehrzweckprojekte für Wasserspeicherung und Wasserüberleitung in Baden-Württemberg),  
W85-03443 1807 8A

#### SUGAR INDUSTRY RESEARCH INST., REDUIT (MAURITIUS). AGRICULTURAL CHEMISTRY DIV.

Nitrogen Leaching from Soils Cropped with Sugarcane under the Humid Tropical Climate of Mauritius, Indian Ocean,  
W85-01294 1803 5B

## ORGANIZATIONAL INDEX

SYSTEMS AND APPLIED SCIENCES CORP., RIVERDALE, MD.

<b>SUGARCANE BREEDING INST., COIMBATORE (INDIA).</b>				
Growth Behaviour of Field Grown Sugarcane Varieties in Relation to Environmental Parameters and Soil Moisture Stress, W85-06192	1812	2I		
<b>SUISELECTRA INGENIEURUNTERNEHMUNG A.G., BASEL.</b>				
Weinzahl Power Station on the Mur (Das Kraftwerk Weizodl an der Mur), W85-01860	1804	8A		
<b>SULZER BROS. LTD., WINTERTHUR (SWITZERLAND). WATER AND WASTEWATER ENGINEERING DIV.</b>				
Corrosion in the Swiss Drinking Water Distribution Systems, W85-06810	1812	5F		
<b>SULZER-ESCHER WYSS LTD., ZURICH (SWITZERLAND).</b>				
Decentralized Hydropower Control, W85-01548	1803	6A		
<b>SUMITOMO CHEMICAL CO. LTD., TAKARAZUKA (JAPAN). RESEARCH CENTER.</b>				
Fate of Fenitrothion in Several Developmental Stages of the Killifish ( <i>Oryzias latipes</i> ), W85-02422	1805	5C		
<b>SUMMERS (W.K.) AND ASSOCIATES, INC., SOCORRO, NM.</b>				
Relationship of Grain-Size Distribution and Hydraulic Conductivity - An Alternate Approach, W85-01534	1803	2F		
<b>SUMX CORP., AUSTIN, TX.</b>				
Investigation of Photocatalytic Oxidation for Wastewater Cleanup and Reuse, W85-01813	1804	5D		
<b>SUN TRAC CORP., GLENVIEW, IL.</b>				
Problems with Traditional Small Reservoir Irrigation Systems in the Semi Arid Tropics, W85-04747	1809	4A		
<b>SUNDERLAND AND SOUTH SHIELDS WATER CO. (ENGLAND).</b>				
Automated Sensor Systems for Water Resource Pollution Warning and Treatment Process Control, W85-02010	1804	5F		
<b>SUNG HYDROPOWER ASSOCIATION, BERN (SWITZERLAND).</b>				
Impact of Water Degradation on Regional Agricultural Economy, W85-01513	1803	4B		
<b>SURREY DISTRICT, VANCOUVER (BRITISH COLUMBIA). ENGINEERING DEPT.</b>				
Rational Method Revised, W85-05460	1810	2E		
<b>SURREY UNIV., GUILDFORD (ENGLAND). DEPT. OF BIOCHEMISTRY.</b>				
Role of Immunoassay in the Analysis of Micro-contaminants in Water Samples, W85-05811	1810	5A		
<b>SUSSEX UNIV., BRIGHTON (ENGLAND). COMPUTING CENTRE.</b>				
Exceptional Rainfall Around Lewes and the South Downs, Autumn 1982, W85-00581	1802	2E		
<b>SVENSKA TRAEFORSKNINGSINSTITUTET, STOCKHOLM.</b>				
Wastewater Treatment at a Swedish Cardboard Factory: Possible Cost Savings, W85-05259	1810	5D		
<b>SVERDLOVSK INST. OF NATIONAL ECONOMY (USSR).</b>				
Effect of Organic Substances on the Results of Anodic Stripping Voltammetry Detection of Metal Ions in Aqueous Media, W85-06056	1811	5A		
<b>SVERDRUP AND PARCEL AND ASSOCIATES, INC., ST. LOUIS, MO.</b>				
Handling of Aluminum Forming Wastewater, W85-05236	1810	5D		
<b>SVERIGES LANTBRUKSUNIVERSITET, UPPSALA. ENERGY FORESTRY PROJECT.</b>				
Water Transfer From Soil Through Plants to the Atmosphere in Willow Energy Forest, W85-05871	1811	2I		
<b>SVERIGES LANTBRUKSUNIVERSITET, UPPSALA. INST. FOER EKOLOGI OCH MILJOEVAARD.</b>				
Forest Growth as a Possible Cause of Soil and Water Acidification: An Examination of the Concepts, W85-01452	1803	5B		
Canopy Conductance of Coniferous Forests Related to Climate, W85-05792	1810	2I		
<b>SVERIGES LANTBRUKSUNIVERSITET, UPPSALA. INSTITUTIONEN FOER MIKROBIOLOGI.</b>				
Reduction of Nitrogen, W85-05213	1810	5D		
Reduction of Organic Matter with Focus on the Clogging Phenomenon, W85-05214	1810	5D		
In Situ Methane Production from Acid Peat in Plant Communities with Different Moisture Regimens in a Subarctic Mire, W85-05720	1810	2K		
<b>SVERIGES METEOROLOGISKA OCH HYDROLOGISKA INST., NORRKOEPING.</b>				
Hydrodynamical Model for Calculating the Vertical Temperature Profile in Lakes During Cooling, W85-01238	1803	2H		
<b>SWEDISH ENVIRONMENTAL RESEARCH INST., STOCKHOLM.</b>				
Tri- and Tetra-Chloroveratrole, Metabolites Produced by Bacterial O-Methylation of Tri- and Tetra-Chloroguaiacol: An Assessment of Their Bioconcentration Potential and Their Effects on Fish Reproduction, W85-03310	1807	5C		
<b>SWEDISH NATURAL SCIENCE RESEARCH COUNCIL, STOCKHOLM.</b>				
New Ecological Approach to the Water Cycle: Ticket to the Future, W85-01704	1804	6A		
Water - The Silent Messenger between Cause and Effect in Environmental Problems, W85-03028	1806	5B		
<b>SWISS CORROSION COMMISSION, ZURICH.</b>				
Corrosion Behaviour of Cast Iron Pipes, W85-01994	1804	8G		
<b>SYBORN CHEMICAL DIV., BIRMINGHAM, NJ.</b>				
Source of Deionized Water for High-Pressure Steam, W85-06061	1811	5F		
<b>SYBORN CORP., BIRMINGHAM, NJ.</b>				
Improving Effluent Quality of Petrochemical Wastewaters with Mutant Bacterial Cultures, W85-05276	1810	5D		
<b>SYSTECH ENGINEERING, INC., LAFAYETTE, CA.</b>				
Hydrologic Analyses of Acidic and Alkaline Lakes, W85-03993	1808	2H		
<b>SYSTEMS AND APPLIED SCIENCES CORP., RIVERDALE, MD.</b>				
Spectral Characteristics of the Global Moisture Distribution and Their Importance in Objective Analysis of Moisture for NWP Models, W85-06958	1812	2D		
<b>SYDNEY UNIV. (AUSTRALIA).</b>				
Geographical Variation in Monthly Rainfall and Milk Production in Eastern New South Wales, W85-01068	1802	2B		
<b>SYDNEY UNIV. (AUSTRALIA). COASTAL STUDIES UNIT.</b>				
Dynamics of a Bathymetrically Arrested Estuarine Front, W85-00660	1802	2L		
<b>SYDNEY UNIV. (AUSTRALIA). DEPT. OF INORGANIC CHEMISTRY.</b>				
Speciation of Iron, Copper and Zinc in the Hawkesbury River, W85-00786	1802	5A		
<b>SYRACUSE RESEARCH CORP., NY.</b>				
Fate of epsilon-Caprolactam in the Aquatic Environment, W85-01956	1804	5B		
<b>SYRACUSE RESEARCH CORP., NY. LIFE AND ENVIRONMENTAL SCIENCES DIV.</b>				
Toxicity of Organic Mixtures Saturated in Water to Daphnia magna. Effect of Compositional Changes, W85-01953	1804	5C		
Solubility of Organic Mixtures in Water, W85-02109	1804	5B		
<b>SYRACUSE UNIV., NY. BIOLOGICAL RESEARCH LABS.</b>				
Mechanistic Simulation Analysis of Water Use, Leaf Angles, and Grazing in East African Graminoids, W85-05870	1811	2I		
<b>SYRACUSE UNIV., NY. DEPT. OF CIVIL ENGINEERING.</b>				
Short-Term Changes in the Base Neutralizing Capacity of an Acid Adirondack Lake, New York, W85-01917	1804	5B		
Phytoplankton Limitation by Phosphorus and Zooplankton Grazing in an Acidic Adirondack Lake, W85-02243	1805	5C		
Residence Time in Stormwater Detention Basins, W85-04968	1809	5D		
Interactions of Copper and Lead with <i>Nostoc muscorum</i> , W85-05040	1810	5B		
Weak Acid/Base Systems in Dilute Acidified Lakes and Streams of the Adirondack Region of New York State, W85-05316	1810	2H		
<b>SYRACUSE UNIV., NY. DEPT. OF GEOLOGY.</b>				
Chloride Budget for the Mississippi River Headwaters to Mouth, W85-02976	1806	5B		
Silicate Dissolution Influence on Filson Creek Chemistry, Northeastern Minnesota, W85-04310	1808	2K		
<b>SYSTECH ENGINEERING, INC., LAFAYETTE, CA.</b>				
Hydrologic Analyses of Acidic and Alkaline Lakes, W85-03993	1808	2H		
<b>SYSTEMS AND APPLIED SCIENCES CORP., RIVERDALE, MD.</b>				
OR-119				

## ORGANIZATIONAL INDEX

### TADZHIK SCIENTIFIC RESEARCH INST. OF SOIL SCIENCE, DUSHANBE (USSR).

**TADZHIK SCIENTIFIC RESEARCH INST. OF SOIL SCIENCE, DUSHANBE (USSR).**

Effect of Differential Porosity on the Nature of Moisture Migration and Salt Accumulation in Soil (as Exemplified by Newly Developed Soils of Tadzhikistan),  
W85-06751

1812 2G

**TAHAL CONSULTING ENGINEERS LTD., TEL-AVIV (ISRAEL).**

Soil-Aquifer Treatment - A New Approach to an Old Method of Wastewater Reuse,  
W85-02573

1805 5D

**TAHAL-WATER PLANNING FOR ISRAEL LTD., TEL-AVIV.**

Design Discharges Estimation for Various Desert Sites near the Dead Sea (Israel),  
W85-05539

1810 2A

**TAIWAN PROVINCIAL WATER CONSERVANCY BUREAU, TAICHUNG CITY.**  
Study and Planning of Reservoir Desilting in Taiwan,  
W85-06542

1812 4A

**TAIWAN WATER POLLUTION CONTROL AGENCY, TAICHUNG.**

Strategy in Water Quality Management in the Republic of China,  
W85-01419

1803 5G

**TAKASAKI COLL. OF ECONOMICS, GUMMA (JAPAN).**

Characteristics of Heavy Metals in the Bottom Mud of Mining and Urban Rivers (in Japanese),  
W85-00533

1802 5B

Distribution of Heavy Metals in Bottom Mud of Rivers IX. -Distribution of Total and Acid-Soluble Cu,  
W85-00929

1802 5B

Characteristics of Heavy Metal Distribution in Bottom Mud of Urban Rivers (in Japanese),  
W85-06000

1811 5B

**TALSPERREN-NEUBAUAMT NUERNBERG (GERMANY, F.R.).**

Recent Investigation Methods for Dam Foundations (Neuere Untersuchungsmethoden für die Grundung von Absperrbauwerken),  
W85-03259

1807 8E

**TAMIL NADU AGRICULTURAL UNIV., COIMBATORE (INDIA).**

Probability Analysis of Rainfall and Evolving Cropping System for Coimbatore,  
W85-05074

1810 2B

**TAMIL NADU AGRICULTURAL UNIV., COIMBATORE (INDIA). DEPT. OF AGRICULTURAL ECONOMICS.**

Ex Post Evaluation of Flood Control Investments: A Case Study in North Dakota,  
W85-03983

1808 6B

**TAMPELLA OY A.B., TAMPERE (FINLAND).**

Taman Anaerobic Process - For Wastewater from Mechanical Pulp and Paper Production,  
W85-07010

1812 5D

**TAMPERE UNIV. OF TECHNOLOGY (FINLAND).**

Zinc in Water and Sediments of Two Finnish Lakes,  
W85-02065

1804 5B

Removal of Sediment Particles by Vortex Basin,  
W85-02391

1805 8B

Cost Comparison of Aerobic and Anaerobic Wastewater Treatment Systems,  
W85-07018

1812 5D

Influence of Sulfur Compounds on Biogas Production from Forest Industry Wastewater,  
W85-07021

1812 5D

**TAMPERE UNIV. OF TECHNOLOGY (FINLAND). DEPT. OF CIVIL ENGINEERING.**

Anaerobic Reactors for Treatment of Synthetic Wastewater Simulating the Organic Composition of Sulphite Evaporator Condensate,  
W85-03682

1807 5D

Proceedings of the International Conference on New Technology for Wastewater Treatment and Sewerage in Rural and Suburb Areas.  
W85-05195

1810 5D

**TARLETON STATE UNIV., STEPHENVILLE, TX.**

Stomatal Responses to Leaf Water Potentials of Drip Irrigated Peach (*Prunus persica*),  
W85-04746

1809 2I

**TASMANIA UNIV., HOBART (AUSTRALIA). DEPT. OF BOTANY.**

Water Chemistry of the River Kwai, Thailand,  
W85-00414

1801 2K

Anomalous Stratification Behaviour of Lake Gordon, Headwater Reservoir of the Lower Gordon River, Tasmania,  
W85-00779

1802 2H

Sulphide Pool and Lake Morrison, Meromictic Lakes of South-west Tasmania,  
W85-00871

1802 2H

Endangered Lakes of Scientific and Cultural Value in the World Heritage Area of South-West Tasmania,  
W85-03761

1807 6G

Tropical Australia, a Dynamic Limnological Environment,  
W85-05655

1810 2H

**TASMANIA UNIV., HOBART (AUSTRALIA). DEPT. OF ZOOLOGY.**

Influence of a Metal-Contaminated Tributary on the Invertebrate Drift Fauna of the King River (Tasmania, Australia),  
W85-06790

1812 5C

**TASMANIA UNIV., HOBART (AUSTRALIA). ENVIRONMENTAL STUDIES.**

Anatomy of the Gordon-Franklin (Tasmania) Dam Controversy; Socio-Economic, Political and Environmental Implications - a Viewpoint,  
W85-05034

1810 6B

**TASMANIAN FISHERIES DEVELOPMENT AUTHORITY, TAROONA (AUSTRALIA).**

Cellular Metal Distribution in the Pacific Oyster, *Crassostrea gigas* (Thun.) Determined by Quantitative X-Ray Microprobe Analysis,  
W85-05995

1811 5C

**TASMANIAN INLAND FISHERIES COMMISSION, HOBART (AUSTRALIA).**

Upstream Migration by Young Pigmented Freshwater Eels (*Anguila australis australis* Richardson) in Tasmania,  
W85-00131

1801 6G

**TATA CONSULTING ENGINEERS, BOMBAY (INDIA).**

Current Water Treatment Practices in Western India - Case Studies of Two Metropolitan Cities, Bombay and Ahmedabad,  
W85-02024

1804 5F

**TAUERNKRAFTWERKE A.G., SALZBURG (AUSTRIA).**

Design Bases of the Arch Dam 'Zillergrundl' (Grundlagen für den Entwurf der Bogenstaumauer Zillergrundl),  
W85-03258

1807 8A

**TAXONOMIC ASSOCIATES, INC., MOBILE, AL.**

Zooplankton-Trophic State Relationships in Some North and Central Florida Lakes,  
W85-01022

1802 2H

**TAYLOR (JOHN) AND SONS, LONDON (ENGLAND).**

Disposal of Drainage Water from Irrigated Alluvial Plains,  
W85-01392

1803 5G

Costs and Benefits of Estuarine and Coastal Pollution Control,  
W85-01394

1803 6B

Sewage Treatment in Abu Dhabi,  
W85-04009

1808 5D

Treatment of Sewage for Use in Municipal Irrigation in Abu Dhabi, UAE,  
W85-04464

1809 5D

**TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY, ATLANTA, GA.**

Proceedings of the 1983 Annual Meeting of the Technical Association of the Pulp and Paper Industry,  
W85-04233

1808 5D

**TECHNICAL UNIV. OF DENMARK, LYNGBY. DEPT. OF SANITARY ENGINEERING.**

Staged Approach to Application of Rainfall Data to Urban Runoff Calculations,  
W85-01694

1804 2E

Methods For Calculation of Annual and Extreme Overflow Events From Combined Sewer Systems,  
W85-01699

1804 2E

Runoff Pattern and Peak Flows from Moving Block Rains Based on a Linear Time-Area Curve,  
W85-06647

1812 2E

**TECHNICAL UNIV. OF DENMARK, LYNGBY. INST. OF HYDRODYNAMICS AND HYDRAULIC ENGINEERING.**

Lift Forces on Moving Particles Near Boundaries,  
W85-02455

1805 2J

Estimation in Partial Duration Series with Independent and Dependent Peak Values,  
W85-05540

1810 4A

**TECHNICAL UNIV. OF DENMARK, LYNGBY. INST. OF MATHEMATICAL STATISTICS AND OPERATIONS RESEARCH.**

Environmental Intervention Analysis: Wisconsin's Ban on Phosphate Detergents,  
W85-06228

1812 5D

**TECHNICAL UNIV. OF DENMARK, LYNGBY. LAB. OF ENVIRONMENTAL SCIENCE AND ECOLOGY.**

Effects of 2,4-Dichlorophenoxyacetic Acid in Artificial Acid Rain on *Brassica napus* and *Sinapis alba*,  
W85-02697

1806 5C

Stochastic Approach to Models for the Leaching of Organic Chemicals in Soil,  
W85-03076

1806 5B

Ecoepidemiology - A Casuistic Discipline Describing Ecological Disturbances and Damages in Relation to Their Specific Causes: Exemplified by Chlorinated Phenols and Chlorophenoxy Acids,  
W85-04777

1809 5C

**TECHNICAL UNIV. OF ISTANBUL (TURKEY). DEPT. OF CIVIL ENGINEERING.**

Modelling The Runs' Properties of Annual Flows,  
W85-01172

1803 2E

## ORGANIZATIONAL INDEX

### TECHNISCHE UNIV., DRESDEN (GERMAN D.R.).

Formation of Ripples on an Erodible Bed, W85-03034	1806 2J	Evaluation of Chloroform Removal in a Biological Treatment System to Meet BAT Limits, W85-05434	1810 5D	Sediment Transport Measurements of Two Northern German Creeks (Messungen des Feststofftransports von zwei Norddeutschen Bachen), W85-03448	1807 2J
<b>TECHNICAL UNIV. OF ISTANBUL (TURKEY). DEPT. OF ENVIRONMENTAL ENGINEERING.</b>					
Water Quality Management in Sakarya River Basin: I. Planning Phase, W85-01418	1803 5G	Motion of the Seawater Interface in a Coastal Aquifer by the Method of Successive Steady States, W85-05535	1810 2F	Wind-Induced Entrainment in a Stably Stratified Fluid, W85-03037	1806 2E
<b>TECHNICAL UNIV. OF ISTANBUL (TURKEY). DEPT. OF HYDRAULICS AND WATER POWER.</b>					
Models for Nonlinear Catchment Analysis, W85-02493	1805 2E	TECHNISCH PHYSISCHE DIENST TNO-TH, DELFT (NETHERLANDS). NUMERICAL SIMULATIONS GROUP.	Solution of Surface Water Flow Equations Using Clesch Variables, W85-03565	1807 2E	TECHNISCHE HOGESCHOOL, DELFT (NETHERLANDS). DEPT. OF AEROSPACE ENGINEERING.
Adaptive Pumping Test Analysis, W85-03753	1807 2F	TECHNISCHE HOCHSCHULE, AACHEN (GERMANY, F.R.). LEHRGEBIET WASSER-ENERGIE-WIRTSCHAFT.	Effects of Temporal Decomposition on Parameter Estimation for Hydrological Models (Der Einfluss der zeitlichen Untergliederung auf die Parameterschatzung in hydrologischen Modellen), W85-00898	1802 2A	Wind-Induced Entrainment in a Stably Stratified Fluid,
<b>TECHNICAL UNIV. OF LISBON (PORTUGAL). INST. SUPERIOR TECNICO.</b>					
Voltammetric Methods for Distinguishing between Dissolved and Particulate Metal Ion Concentrations in the Presence of Hydrous Oxides. A Case Study on Lead (II), W85-04800	1809 5A	TECHNISCHE HOCHSCHULE, AACHEN (GERMANY, F.R.). LEHRSTUHL FUER LANDSCHAFTSOKOLOGIE UND LANDSCHAFTSGESTALTUNG.	Effects of Copper Chelate on Photosynthesis and Some Enzyme Activities of Elodea canadensis, W85-01083	1802 5C	TECHNISCHE HOGESCHOOL TWENTE, ENSCHEDE (NETHERLANDS).
<b>TECHNICAL UNIV. OF LODZ (POLAND). INST. OF APPLIED RADIATION CHEMISTRY.</b>					
Irradiation in Industrial Waste Treatment, W85-03726	1807 5D	TECHNISCHE HOCHSCHULE AACHEN (GERMANY, F.R.). LEHRSTUHL FUER GRUNDBAU, BODENMECHANIK, FELSMECHANIK UND VERKEHRSWASSERBAU.	Interaction between an Arch Dam and its Foundation (Wechselwirkung zwischen Staumauer und Untergrund), W85-03256	1807 8A	Dynamic Phosphate Budget Model for a Eutrophic Lake, W85-02072
<b>TECHNICAL UNIV. OF NOVA SCOTIA, HALIFAX. DEPT. OF CIVIL ENGINEERING.</b>					
Pile Capacity for Eccentric Inclined Load in Clay, W85-03422	1807 8D	TECHNISCHE HOCHSCHULE AACHEN (GERMANY, F.R.). LEHRSTUHL UND INST. FUER SIEDLUNGSWASSERWIRTSCHAFT.	Mass Cultivation of Planktonic Freshwater Algae for the Production of Extracellular Organic Matter (EOM), W85-07026	1812 2H	TECHNISCHE UNIV. BERLIN (GERMANY, F.R.). INST. FUER OEKOLOGIE.
<b>TECHNION - ISRAEL INST. OF TECH., HAIFA.</b>					
Coflocculation of Algae and Clay to Clarify Turbid Impoundments, W85-01324	1803 5G	TECHNISCHE HOCHSCHULE, DARMSTADT (GERMANY, F.R.).	Guidelines for Efficiency Scaling Process of Hydraulic Turbomachines with Different Technical Roughnesses of Flow Passages, W85-00194	1801 8C	Investigations on the Limnology of Small Fertilized Ponds (Untersuchungen zur Limnologie gedunger Kleinteiche), W85-04060
Determination of Formation Permeability of Double-Packer Tests, W85-01618	1803 2F	Plankton and Materials Budget of the Mosel at the Einkirch Storage Basin 1981 (Plankton und Stoffhaushalt der Mosel bei der Staumauer Einkirch 1981), W85-05739	1810 2H	TECHNISCHE UNIV. BERLIN (GERMANY, F.R.). INST. FUER TECHNISCHEN UMWELTSCHUTZ.	
<b>TECHNION - ISRAEL INST. OF TECH., HAIFA. DEPT. OF AGRICULTURAL ENGINEERING.</b>					
Hydraulic Conductivity and Water Retention of Clay Soils Containing Coarse Fragments, W85-02320	1805 2G	TECHNISCHE HOCHSCHULE DARMSTADT (GERMANY, F.R.). FACHBEREICH MASCHINENBAU.	Determination of Trace Elements in River Water by Means of Voltammetry (Bestimmung von Spurenelementen in Flusswasser mit Hilfe der Voltammetrie), W85-06760	1812 5A	Differential Pulse Stripping-Voltammetry for Routine Heavy-Metal Analysis of Drinking Water (Differentielle Pulsinversvoltammetrie fur die Schwermetallanalytik von Trinkwasser), W85-03719
<b>TECHNION - ISRAEL INST. OF TECH., HAIFA. ENVIRONMENTAL AND WATER RESOURCES ENGINEERING.</b>					
Contact Flocculation-Filtration of Humic Substances, W85-01722	1804 5D	TECHNISCHE HOCHSCHULE DARMSTADT (GERMANY, F.R.). FACHBEREICH PAPIERFABRIKATION.	Anaerobic Fermentation of Sulphite Pulp Mill Effluents, W85-07012	1812 5D	River Gauging by Ultrasonics in Open Channels: Instruments and Experience Abroad (Abflussermittlung in offenen Gerinnen mittels Ultraschallmessung: Im Ausland eingesetzte Geräte und gewonnene Erfahrungen), W85-06157
Coprecipitation of Microalgal Biomass with Calcium and Phosphate Ions, W85-04498	1809 5F	TECHNISCHE HOCHSCHULE DARMSTADT (GERMANY, F.R.). INST. FUER WASSERBAU.	Denudation and Reservoir Sedimentation in Middle Europe (Feststoffabtrag und Stauraumverlängerung in Mitteleuropa), W85-03439	1807 2J	TECHNISCHE UNIV., BRUNSWICK (GERMANY, F.R.). INST. FUER GEOGRAPHIE.
Kinetic Studies of Chemical and Biological Treatment for Renovation, W85-07053	1812 5D	Denudation and Reservoir Sedimentation in Middle Europe (Feststoffabtrag und Stauraumverlängerung in Mitteleuropa), W85-03439	1807 2J	Application of Tracer Techniques for Determining the Water Balance in Small Catchment Basins; A Research Concept for the Experimental Basins in the Upper Harz Mountains (Anwendung von Tracertechniken zur Erfassung des Wasserumsatzes in kleinen Einzugsgebieten; Ein Forschungsconcept für die Oberharzer Untersuchungsgebiete), W85-04804	
<b>TECHNION - ISRAEL INST. OF TECH., HAIFA. FACULTY OF CIVIL ENGINEERING.</b>					
Combined Effect of Wind and Topography on Rainfall Distribution, W85-01166	1803 2B	TECHNISCHE HOCHSCHULE DARMSTADT (GERMANY, F.R.). FACHBEREICH PAPIERFABRIKATION.	Interactions between Light Situation, Depth of Mixing and Phytoplankton Growth during the Spring Period of Full Circulation, W85-02568	1805 2H	TECHNISCHE UNIV., BRUNSWICK (GERMANY, F.R.). LEICHTWEISS INST. FOR WATER RESEARCH.
Shape of the Non-Steady Interface Intersecting Discontinuities in Permeability, W85-04168	1808 2F	Anaerobic Fermentation of Sulphite Pulp Mill Effluents, W85-07012	Water Uptake of Barley Roots from Rhizospheric Soil Solutions of Different Salt Concentrations, W85-05920	1811 2I	Water Uptake of Barley Roots from Rhizospheric Soil Solutions of Different Salt Concentrations, W85-05920
<b>TECHNION - ISRAEL INST. OF TECH., HAIFA. DEPT. OF ENVIRONMENTAL ENGINEERING.</b>					
Single Sludge Nitrogen Removal in an Oxidation Ditch, W85-04296	1808 5D	TECHNISCHE HOCHSCHULE DARMSTADT (GERMANY, F.R.). INST. FUER WASSERBAU.	Interactions between Light Situation, Depth of Mixing and Phytoplankton Growth during the Spring Period of Full Circulation, W85-02568	1805 2H	TECHNISCHE UNIV., DRESDEN (GERMAN D.R.).

## ORGANIZATIONAL INDEX

### TECHNISCHE UNIV., DRESDEN (GERMAN D.R.). BEREICH HYDROBIOLOGIE.

#### TECHNISCHE UNIV., DRESDEN (GERMAN D.R.). BEREICH HYDROBIOLOGIE.

Problems of Application of the Ecological Model SALMO to Lakes and Reservoirs Having Various Trophic States,  
W85-01113 1802 2H

Ensuring a High Level of Effectiveness and Intensity of Agricultural and Water-Management Production in Drinking-Water Catchment Areas (Sicherung hoher Effektivität und Intensität der landwirtschaftlichen und wasserwirtschaftlichen Produktion in Trinkwasser-Einzugsgebieten),  
W85-01883 1804 4D

Calculation of Melt-water Discharge from the Snow Cover in Catchment Areas in the Mittelgebirge Mountains (Berechnung der Schmelzwasserabgabe aus der Schneedecke in Einzugsgebieten des Mittelgebirges),  
W85-01972 1804 2C

Forecasting of Water Level and Discharge of the Elbe with the Aid of Fuzzy Modelling (Vorhersage von Wasserstand und Durchfluss für die Elbe mit Hilfe einer unscharfen Modellierung),  
W85-01973 1804 2E

Observations from the Test Operation of an Ion-exchange Facility for Nitrate Removal in Drinking-water Treatment (Erfahrungen aus dem Erprobungsbetrieb einer Ionenautauscheranlage zur Nitratelimination in der Trinkwasseraufbereitung),  
W85-01974 1804 5F

Manipulation of the Pelagic Food Web by Stocking with Predacious Fishes,  
W85-02565 1805 4A

#### TECHNISCHE UNIV., DRESDEN (GERMAN D.R.). SEKTION WASSERWESEN.

Rational Slope Stabilization by Means of a New Type of Concrete Plate (Rationale Böschungsbefestigungen Durch Neuartige Betonplatten),  
W85-03453 1807 8F

Aspects of Evaluating the Rehabilitation of the Foundation at the Muldenburg Dam (Einige Aspekte zur Auswertung der Untergrundsanierung an der Talsperre Muldenberg),  
W85-03454 1807 8A

Minicomputer Program for Water-Level Calculation and Forecasting and Its Testing on the Oder Between Eisenhüttenstadt and Kietz (Kleinrechnerprogramm zur Wasserstandsberchnung und -vorhersage und dessen Erprobung am Oderabschnitt Eisenhüttenstadt-Kietz),  
W85-03518 1807 2E

Lowering of the Water Level at Watertight Reinforcements (Wasserspiegelsenkung bei dichten Deckwerken),  
W85-03521 1807 8A

Economic Evaluation of Measures for Conserving and Improving Water Quality (Ökonomische Beurteilung von Massnahmen zum Schutz und zur Sanierung der Gewässer),  
W85-03525 1807 6B

DO-Process Models for Shallow Systems. Part 1: Ponds and Lakes,  
W85-06655 1812 2K

Hydrochemical Results of the Treatment of Heavily Loaded Surface Water and Bank Filtration with Hydrated Lime. Part 1 (Hydrochemische Ergebnisse zur Aufbereitung stark belasteter Oberflächenwasser und Uferfiltrate mit Kalkhydrat, Teil 1),  
W85-06663 1812 5F

Hydrochemical Results of the Treatment of Heavily Loaded Surface Water and Bank Filtration with Hydrated Lime. Part 2 (Hydrochemische Ergebnisse zur Aufbereitung stark belasteter Oberflächenwasser und Uferfiltrate mit Kalkhydrat, Teil 2),  
W85-06664 1812 5F

Scaling of Microcosms and the Dimensional Analysis of Lakes,  
W85-06882 1812 2H

#### TECHNISCHE UNIV., GRAZ (AUSTRIA). INST. FUER SIEDLUNGS- UND INDUSTRIEWASSERWIRTSCHAFT, FLUSSBAU.

Relationship Between Surface Loading, Depth and Effluent Suspended Solids at a Rectangular, Horizontal Pilot-Scale Secondary Clarifier,  
W85-03652 1807 5D

#### TECHNISCHE UNIV., HAMBURG-HARBURG (GERMANY, F.R.). ARBEITSBEREICH UMWELTSCHUTZTECHNIK.

Accumulative Phases for Heavy Metals in Limnic Sediments,  
W85-02077 1804 5B

#### TECHNISCHE UNIV. MUENCHEN, GARCHING (GERMANY, F.R.). INST. OF WATER QUALITY MANAGEMENT AND SANITARY ENGINEERING.

Combination of the Activated Sludge Process with Fixed Film Biomass to Increase the Capacity of Waste Water Treatment Plants,  
W85-03643 1807 5D

#### TECHNISCHE UNIV. MUENCHEN (GERMANY, F.R.).

Influence of Pretreatment on Anaerobic Stabilization of Sewage Sludge,  
W85-04002 1808 5E

#### TECHNISCHE UNIV. MUENCHEN (GERMANY, F.R.). INST. FUER WASSERCHEMIE UND CHEMISCHE BALNEOLOGIE.

Investigation and Development of Swimming Pool Water Treatment, III. Long Contact Time Ozonation for Pool Water Treatment (Erforschung und Entwicklung der Schwimmwasserbeaufbereitung. III. Mitt: Badewasserbeaufbereitung mit Ozon im Langzeitkontakt),  
W85-02740 1806 5D

Original Purity - Demands and Criteria According to the New Mineral Water and Table Water Ordinance (Ursprüngliche Reinheit - Anforderungen und Kriterien nach der neuen Mineral- und Tafelwasser-Verordnung),  
W85-05453 1810 5F

#### TECHNISCHE UNIV. MUENCHEN (GERMANY, F.R.). LEHRSTUHL FUER HYDROGEOLOGIE UND HYDROCHEMIE.

Determination of Inorganic Carbon (TIC) in Small Samples with the Use of Micro-computers (Einsatz von Micro-Computern bei der Bestimmung von anorganischem Kohlenstoff (TIC) in geringen Wassermengen),  
W85-02741 1806 5A

PE-PVC-Suction Cup in Sandwich Construction for Taking Seepage Water Samples, (Eine Kunststoff-Saugkerze in Sandwichbauweise zur Gewinnung von Sickerwasserproben),  
W85-03592 • 1807 7B

#### TECHNISCHE UNIV. MUENCHEN, WEIHENSTEPHAN (GERMANY, F.R.). SUEDDEUTSCHE VERSUCHS- UND FORSCHUNGSASTALT FUER MILCHWIRTSCHAFT.

Antibacterial Effects on Predominant Taxa in the Activated Sludge System of a Chemical Combine (Die Hemmstoffresistenz dominierender Bakteriengruppen in der Belebtschlamm-Anlage eines Chemiewerks),  
W85-02738 1806 5D

#### TECHNISCHE UNIV., MUNICH (GERMANY, F.R.). INST. FUER HYDRAULIK UND GEWASSERKUNKE.

Effects of Wind on the Temperature Stratification in the Lake of Kochel - First Evaluation of Data and Results (Der geschichtete Kochelsee unter Windlast - Erste Datenauswertung und Ergebnisse),  
W85-00900 1802 2H

#### TECHNISCHE UNIV., MUNICH (GERMANY, F.R.). INST. FUER WASSERCHEMIE UND CHEMISCHE BALNEOLOGIE.

Determination of Chlorine Dioxide and Chlorite in Drinking-Water (Bestimmung von Chlor-dioxid und Chlorit im Trinkwasser),  
W85-01664 1804 5F

#### TECHNISCHE UNIV., MUNICH (GERMANY, F.R.). LEHRSTUHL FUER BODENKUNDE.

Proposal on an Ecological Basis for the Classification of Recent Underwater Soils in Rivers (Ein Vorschlag zur Klassifizierung rezenten Unterwasserboden von Flüssen auf ökologischer Grundlage),  
W85-01370 1803 5C

#### TECHNISCHE UNIV., MUNICH (GERMANY, F.R.). LEHRSTUHL FUER HYDROGEOLOGIE AND HYDROCHEMIE.

Studies on the Drainage Behavior of Quaternary Gravel and Sand Mixtures (Untersuchungen Zum Entwässerungsverhalten Von Quartären Kies- und Sandgemischen),  
W85-01055 1802 2G

#### TECHNISCHE UNIV., MUNICH (GERMANY, F.R.). LEHRSTUHL UND PRUEFAMT FUER WASSERGUTEWIRTSCHAFT UND GESUNDHEITSSINGENIEURWESEN.

Rainfall Events as Paths of a Stochastic Process: Problems of Design Storm Analysis,  
W85-01684 1804 2B

#### TECHNISCHE UNIV., VIENNA (AUSTRIA). INST. FUER ANALYTISCHE CHEMIE.

Electron-Microanalytical Investigations of the Interfacial Corrosion in Concrete,  
W85-01129 1803 8F

#### TECHNISCHE UNIV., VIENNA (AUSTRIA). INST. FUER WASSERGUETE UND LANDSCHAFTSWASSERBAU.

Anaerobic Treatment of Sulfit Pulp Mill Effluents,  
W85-07011 1812 5D

Anaerobic Treatment of Viscose Wastewater,  
W85-07016 1812 5D

Anaerobic Treatment of Fibre Board Mill Wastewater,  
W85-07023 1812 5D

#### TECHNISCHER GESCHAFTSFUHRER DES ZWECKVERBANDES LANDESWASSERVERSORGUNG, STUTTGART (GERMANY, F.R.).

Application of a Basic Hydraulic Principle for the Water Distribution in the New Water Works Egau of the Landeswasserversorgung (Anwendung eines alten Hydraulischen Prinzips der Wasserverteilung im Neuen Egau-Wasserwerk der Landeswasserversorgung),  
W85-03446 1807 5F

## ORGANIZATIONAL INDEX

### TEXAS A AND M UNIV., COLLEGE STATION. REMOTE SENSING CENTER.

<b>TECHNO-CONSULT, KARACHI (PAKISTAN).</b>		
Appropriate Technology to Improve Drinking Water Quality,		
W85-02014	1804	5F
<b>TEKNOLOGISK INST., TASTRUP (DENMARK).</b>		
Experiments with Testing of Septic Tanks,		
W85-05203	1810	5D
<b>TEL-AVIV UNIV. (ISRAEL). FACULTY OF ENGINEERING.</b>		
Flow Toward Storage Tunnels Beneath a Water Table; 2. Three-Dimensional Flow,		
W85-02663	1805	4B
Solute Transport in Heterogeneous Porous Formations,		
W85-03036	1806	2F
Stochastic Modeling of Groundwater Flow by Unconditional and Conditional Probabilities: The Inverse Problem,		
W85-04793	1809	2F
Note on Higher-Order Corrections of the Head Covariances in Steady Aquifer Flow,		
W85-06511	1812	2F
<b>TENNESSEE EASTMAN CO., KINGSPORT.</b>		
Ultraviolet Disinfection for Municipal Wastewater,		
W85-06430	1812	5D
<b>TENNESSEE TECHNOLOGICAL UNIV., COOKEVILLE.</b>		
Survey of Problems with Reverse Osmosis Water Treatment,		
W85-02400	1805	5F
Toxicity of Wet Limestone Scrubber Sludges, Ash Pond Sludges and Effluent Wastes from a Combustion Process,		
W85-05274	1810	5D
<b>TENNESSEE TECHNOLOGICAL UNIV., COOKEVILLE. CUMBERLAND BIOLOGICAL STATION.</b>		
Automated Fish Respiratory Monitoring System for Stream Acidification Episode Assessment,		
W85-05629	1810	5A
<b>TENNESSEE TECHNOLOGICAL UNIV., COOKEVILLE. DEPT. OF CIVIL ENGINEERING.</b>		
Color Removal from Sulfite Wastes with Cationic Surfactants,		
W85-05404	1810	5D
<b>TENNESSEE UNIV., KNOXVILLE.</b>		
Assessment of the Residual Effects of Long-Term Spray Disposal of an Industrial Sludge,		
W85-05394	1810	5E
<b>TENNESSEE UNIV., KNOXVILLE. DEPT. OF AGRICULTURAL ENGINEERING.</b>		
Irrigation System Capacities for Corn Production in Nebraska,		
W85-01187	1803	3F
Sprinkler Droplet Size Distribution Estimation from Single Leg Test Data,		
W85-04745	1809	8C
<b>TENNESSEE UNIV., KNOXVILLE. DEPT. OF CIVIL ENGINEERING.</b>		
Sedimentation Success from Modified Jar Tests,		
W85-01910	1804	5F
Determination of Bromide in Natural Waters by Ion Chromatography Using a Concentrator Column,		
W85-02436	1805	5A
<b>TENNESSEE UNIV., KNOXVILLE. DEPT. OF MICROBIOLOGY.</b>		
Impact of Coal-Coking Effluent on Sediment Microbial Communities: A Multivariate Approach,		
W85-00095	1801	5C
Predictive Assessment of Priority Pollutant Bio-Oxidation Kinetics in Activated Sludge,		
W85-02768	1806	5D
<b>TENNESSEE VALLEY AUTHORITY, CHATTANOOGA.</b>		
Targeted Chlorination is Viable and Environmentally Acceptable,		
W85-05916	1811	5F
<b>TENNESSEE VALLEY AUTHORITY, CHATTANOOGA. DIV. OF WATER RESOURCES.</b>		
Reservoir Release Improvement,		
W85-05298	1810	5G
<b>TENNESSEE VALLEY AUTHORITY, KNOXVILLE. DIV. OF AIR AND WATER RESOURCES.</b>		
Power Plant Influences on Bulk Precipitation, Throughfall, and Stemflow Nutrient Inputs,		
W85-01286	1803	5B
<b>TENNESSEE VALLEY AUTHORITY, KNOXVILLE. ENVIRONMENTAL QUALITY STAFF.</b>		
Cost-Effective Targeting of Agricultural Non-point-Source Pollution Controls,		
W85-05960	1811	5G
<b>TENNESSEE VALLEY AUTHORITY, MUSCLE SHOALS, AL. DIV. OF AGRICULTURAL DEVELOPMENT.</b>		
Optimization of Biological Recycling of Plant Nutrients in Livestock Waste by Utilizing Waste Heat from Cooling Water,		
W85-06983	1812	5D
<b>TENNESSEE VALLEY AUTHORITY, NORRIS.</b>		
Hydro System Planning of the TVA,		
W85-01547	1803	6A
<b>TERECO CORP., COLLEGE STATION, TX.</b>		
Application of the Biotal Ocean Monitor System to a Study of the Impacts of Ocean Dumping of Dredged Material in the New York Bight,		
W85-00051	1801	5C
<b>TETRA TECH, INC., BELLEVUE, WA.</b>		
Hydrocarbon and Azaarene Markers of Coal Transport to Aquatic Sediments,		
W85-03056	1806	5A
Effects of Sewage Pollution on Coral-Reef Communities,		
W85-05714	1810	5C
<b>TETRA TECH, INC., LAFAYETTE, CA.</b>		
Screening Methods for Synfuel Chemicals in Aquatic Environments,		
W85-02812	1806	5A
Development and Calibration of the Integrated Lake-Watershed Acidification Study Model,		
W85-05321	1810	2K
<b>TEUFEL AND ASSOCIATES, DAVIS, CA.</b>		
Seasonal Changes in Dissolved-Gas Supersaturation in the Sacramento River and Possible Effects on Striped Bass,		
W85-03247	1807	5C
<b>TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF BIOLOGY.</b>		
Toxicity of Mercuric Chloride and Methylmercuric Chloride to Fundulus Heteroclitus Embryos in Relation to Exposure Conditions,		
W85-01119	1803	5C
<b>TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF CHEMISTRY.</b>		
Effect of Terrestrial Herbicides on the Community Structure of Stream Periphyton,		
W85-03046	1806	5C
Electrochemical Approach to the Prevention of Biofouling Phenomena,		
W85-00863	1802	3A
Determination of Arsenite and Arsenate by Differential Pulse Polarography,		
W85-03412	1807	5A
<b>TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF CIVIL ENGINEERING.</b>		
Innovative Process for Treating Recycled Cooling Water,		
W85-03334	1807	5D
<b>TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF GEOLOGY.</b>		
Determining Dispersion Coefficients and Sources of Model-Dependent Scaling,		
W85-04274	1808	2F
Displacement of Connate Water from Aquifers,		
W85-05732	1810	2F
<b>TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF OCEANOGRAPHY.</b>		
Volatile Organic Inputs from an Ocean Outfall Near Barceloneta, Puerto Rico,		
W85-01963	1804	5E
Behaviour of Hexachlorocyclohexane Isomers and Zn, Cu and Cd in the Freshwater-Seawater Mixing Area,		
W85-02760	1806	5B
<b>TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF SOIL AND CROP SCIENCES.</b>		
Effect of Soil Moisture upon Soil Albedo,		
W85-01071	1802	2G
Movement of Nitrogen Species Through Three Soils below Septic Fields,		
W85-01293	1803	5B
Mutagenic Activity of Runoff and Leachate Water from Hazardous Waste Land Treatment,		
W85-02588	1805	5B
Runoff Water Quality from Fresh Mine Spoil,		
W85-02744	1806	5B
Erodibility of Strip-Mine Spoils,		
W85-04344	1808	2J
<b>TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF VETERINARY ANATOMY.</b>		
Effects of the Black River (Cape, South Africa) on the Distribution and Survival of Marine Psammofauna,		
W85-05861	1811	2L
<b>TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF WILDLIFE AND FISHERIES SCIENCES.</b>		
Predicted Survival of the Bay Anchovy (Anchoa mitchilli) in the Heated Effluent of a Power Plant on Galveston Bay, Texas,		
W85-03022	1806	5C
<b>TEXAS A AND M UNIV., COLLEGE STATION. REMOTE SENSING CENTER.</b>		
Case Study: Estimating Antecedent Precipitation Index from Heat Capacity Mapping Mission Day Thermal Infrared Data,		
W85-00689	1802	7B

## ORGANIZATIONAL INDEX

### TEXAS A AND M UNIV., EL PASO. AGRICULTURAL RESEARCH AND EXTENSION

**TEXAS A AND M UNIV., EL PASO.  
AGRICULTURAL RESEARCH AND  
EXTENSION CENTER.**  
Water Use, Growth and Rubber Yields of Four  
Guayule Selections as Related to Irrigation Re-  
gimes,  
W85-05166 1810 3F

**TEXAS A AND M UNIV., EL PASO.  
AGRICULTURAL RESEARCH STATION.**  
Model for Scheduling Pecan Irrigation with  
Microcomputers,  
W85-01193 1803 3F

**TEXAS AGRICULTURAL EXPERIMENT  
STATION, COLLEGE STATION.**  
Modeling Approach to Determining the Rela-  
tionship between Erosion and Soil Productivity,  
W85-03374 1807 2J

**TEXAS AGRICULTURAL EXPERIMENT  
STATION, COLLEGE STATION. DEPT. OF  
RECREATION AND PARKS.**  
Relationship Between Commercial and Recre-  
ational Use of Navigation Locks on the Upper  
Mississippi River,  
W85-02985 1806 6D

**TEXAS AGRICULTURAL EXPERIMENT  
STATION, LUBBOCK.**  
Modification of Cotton Water Relations and  
Growth with Mepiquat Chloride,  
W85-03357 1807 3F

**TEXAS AGRICULTURAL EXPERIMENT  
STATION, TEMPLE. BLACKLAND  
RESEARCH CENTER.**  
Radar Precipitation Estimates for a Soil Water  
Balance,  
W85-03394 1807 7A

Agricultural Drought Assessments Using a Crop  
Model,  
W85-05332 1810 2A

Microclimate of a Rainfall Shelter,  
W85-06185 1812 2I

**TEXAS AGRICULTURAL EXPERIMENT  
STATION, VERNON.**  
Effect of Furrow Diking, Subsoiling, and Slope  
Position on Crop Yields,  
W85-06186 1812 3F

**TEXAS DEPT. OF WATER RESOURCES,  
AMARILLO.**  
Nitrite Toxicity to the Crayfish Procambarus  
clarkii,  
W85-05013 1810 5C

**TEXAS SOUTHERN UNIV., HOUSTON.  
DEPT. OF CHEMISTRY.**  
Analysis of Aqueous Sediments for Heavy  
Metals,  
W85-01742 1804 5B

**TEXAS TECH UNIV., LUBBOCK. DEPT. OF  
CHEMISTRY.**  
Thermodynamics of the Hydrogen Peroxide-  
Water System,  
W85-05118 1810 5B

**TEXAS TECH UNIV., LUBBOCK. DEPT. OF  
CIVIL ENGINEERING.**  
Fishable Waters Everywhere: An Appropriate  
Goal,  
W85-01850 1804 6B

Summary of US OECD Eutrophication Study.  
Results and Their Application to Water Quality  
Management,  
W85-02625 1805 5C

**TEXAS TECH UNIV., LUBBOCK. DEPT. OF  
PLANT AND SOIL SCIENCE.**  
Saline Irrigation Water: Effects on Soil Chemi-  
cal and Physical Properties,  
W85-04618 1809 3C

**TEXAS UNIV. AT ARLINGTON. DEPT. OF  
BIOLOGY.**

Transport of Dissolved Organic Carbon through  
a Major Creek of the North Inlet Ecosystem,  
W85-01766 1804 2L

Applicability of the Fluorescein Diacetate  
Method of Detecting Active Bacteria in Fresh-  
water,  
W85-03306 1807 5A

**TEXAS UNIV. AT AUSTIN.**  
Land Treatment of Wastes: Concepts and Gen-  
eral Design,  
W85-06018 1811 5D

**TEXAS UNIV. AT AUSTIN. BUREAU OF  
ECONOMIC GEOLOGY.**

Nitrogen-Isotope Analysis of Groundwater Ni-  
trate in Carbonate Aquifers: Natural Sources  
versus Human Pollution,  
W85-00023 1801 5B

Brackish Water in Unsaturated Confining Beds  
at a Texas Lignite Mine,  
W85-04639 1809 2F

Interpretation of Pressure-Depth from Confined  
Underpressured Aquifers Exemplified by the  
Deep-Basin Brine Aquifer, Palo Duro Basin,  
Texas,  
W85-06507 1812 2F

Automatic Generation of Flow Nets with Con-  
ventional Ground-Water Modeling Algorithms,  
W85-06823 1812 2F

**TEXAS UNIV. AT AUSTIN. DEPT. OF CIVIL  
ENGINEERING.**

Kinematic Models for Soil Moisture and Solute  
Transport,  
W85-01343 1803 2G

Flocculation Model Testing: Particle Sizes in a  
Softening Plant,  
W85-01908 1804 5F

Equalization/Neutralization Modeling An Ap-  
plication to Fluoride Removal,  
W85-02914 1806 5D

Biological Treatability of Underground Coal  
Gasification Wastewater,  
W85-05436 1810 5D

Transfer Function Models of Daily Urban Water  
Use,  
W85-06496 1812 6D

Coprophages as Indicators of Enteric Viruses in  
Activated Sludge,  
W85-07113 1812 5A

**TEXAS UNIV. AT AUSTIN. DEPT. OF  
GEOLOGICAL SCIENCES.**

Hydrogeologic Characteristics of Shallow Glaci-  
al Drift Aquifers in Dissected Till Plains  
(North-Central Missouri),  
W85-03147 1806 2F

**TEXAS UNIV. AT AUSTIN. DEPT. OF  
PHARMACOLOGY.**

Correlation between Selenium Accumulation in  
Sunfish and Changes in Condition Factor and  
Organ Weight,  
W85-01444 1803 5C

Histopathological, Hematological, Condition-  
Factor, and Organ Weight Changes Associated  
with Selenium Accumulation in Fish from  
Blewett Lake, North Carolina,  
W85-02198 1805 5C

**TEXAS UNIV. AT AUSTIN, PORT ARANSAS.  
MARINE SCIENCE INST.**

Phytoplankton Production in the Corpus Christi  
Bay Estuary,  
W85-04432 1809 2L

**TEXAS UNIV. AT DALLAS, RICHARDSON.  
GRADUATE PROGRAM IN  
ENVIRONMENTAL SCIENCES.**

Chemical Reactor Design Theory and Biologi-  
cal Treatment of Industrial Wastes: Is There a  
Gap,  
W85-05441 1810 5D

**TEXAS UNIV. AT DALLAS, RICHARDSON.  
INST. FOR ENVIRONMENTAL SCIENCES.**

Adsorption of Copper, Lead and Cobalt by Ac-  
tivated Carbon,  
W85-01717 1804 5D

Breakdown of Macrophytes in a Reservoir Wet-  
land,  
W85-05607 1810 2H

**TEXAS UNIV. AT EL PASO. DEPT. OF CIVIL  
ENGINEERING.**

Conventional Water Process Costs Studied,  
W85-01706 1804 5D

**TEXAS UNIV. HEALTH SCIENCE CENTER  
AT HOUSTON. SCHOOL OF PUBLIC  
HEALTH.**

Characterization of Organic Compounds in Sim-  
ulated Rainfall Runoffs from Model Coal Piles,  
W85-02200 1805 5B

**TEXAS UNIV. HEALTH SCIENCE CENTER  
AT SAN ANTONIO. SCHOOL OF PUBLIC  
HEALTH.**

Consequences of Oil Pollution on the Decomposi-  
tion of Vascular Plant Litter in Freshwater  
Lakes: Part 2- Nutrient Exchange between  
Litter and the Environment,  
W85-00681 1802 5C

Responses of Model Freshwater Ecosystems to  
Crude Oil,  
W85-06219 1812 5C

New Canal on Europe's Map: The Danube-  
Black Sea Canal,  
W85-06419 1812 6B

**TEXAS UNIV. MEDICAL SCHOOL AT  
HOUSTON.**

Use of Microorganisms as Ground-Water Trac-  
ers: A Review,  
W85-00299 1801 5A

Detection of Enteric Viruses in Treated Drink-  
ing Water,  
W85-02136 1804 5F

**THAMES POLYTECHNIC, LONDON  
(ENGLAND).**

Arsenic Speciation in Soil-Pore Waters From  
Mineralized and Unmineralized Areas of South-  
West England,  
W85-04662 1809 2K

**THAMES POLYTECHNIC, LONDON  
(ENGLAND). SCHOOL OF CHEMISTRY.**

Multi-Element Analysis of Trace Metals in  
Some Environmental Samples by Solvent Ex-  
traction and High-Performance Liquid Chroma-  
tography of Metal Chelate Complexes,  
W85-00166 1801 5A

**THAMES WATER AUTHORITY (ENGLAND).  
NORTHERN DIV.**

Relating Effluent Control Parameters to River  
Quality Objectives Using a Generalised Catch-  
ment Simulation Model,  
W85-01402 1803 5G

Water Resources of the Thames Basin: Quantita-  
tive and Qualitative Aspects,  
W85-03881 1808 6B

Sampling to Meet Water Quality Standards,  
W85-03882 1808 5F

## ORGANIZATIONAL INDEX

Leakage Investigations in Hounslow, W85-03884	1808 3D	TIMCO MFG., INC., PRAIRIE DU SAC, WI. Monitoring in the Vadose and Saturated Zones Utilizing Fluoroplastic, W85-03192	1806 7B	TOKYO UNIV. OF FISHERIES (JAPAN). Effect of Seeding During Thermophilic Composting of Sewage Sludge, W85-05513	1810 5D
Biological Considerations in the Setting of Quality Standards for the Tidal Thames, W85-04509	1809 5G	TIPPETTS-ABBETT-MCCARTHY-STRATTON, NEW YORK. Rehabilitation of the Delta Dam, W85-04030	1808 8A	TOKYO METROPOLITAN RESEARCH LAB. OF PUBLIC HEALTH (JAPAN). Effect of Environmental Factors on Toxicity of a Cyanobacterium ( <i>Microcystis aeruginosa</i> ) under Culture Conditions, W85-07134	1812 5C
Pollution Management and the Tidal Thames, W85-04527	1809 5G	MATHEMATICAL MODEL FOR RESERVOIR SEDIMENTATION PLANNING, W85-04785	1809 6A	TOKYO METROPOLITAN UNIV. (JAPAN). DEPT. OF BIOLOGY. Transformation and Decomposition of Photosynthetic Products of Lake Phytoplankton, W85-02254	1805 2H
River Quality and Sewage Effluent Standards, W85-05515	1810 5G	LOWER MISSISSIPPI SALINITY ANALYSIS, W85-05785	1810 2L	Heterotrophic Bacterial Community in Oligotrophic Lake Tahoe, W85-02649	1805 2H
Viruses and Drinking Water, W85-06577	1812 5F	TIROLER WASSERKRAFTWERKE A.G., INNSBRUCK (AUSTRIA). ANALYSIS OF CONTROL MEASURES IN THE FINNSTRAL ROCKFILL DAM (ANALYSE DER KONTROLLMESSUNGEN IM STAUDAMM FINNSTRAL), W85-03262	1807 8A	Seasonal Variations in Four Bacterial Size Fractions from a Hypertrophic Pond in Tokyo, Japan, W85-04912	1809 2H
<b>THAYER SCHOOL OF ENGINEERING, HANOVER, NH.</b>		INFLUENCE OF GEOLOGY AND GEOTECHNOLOGY ON DAM DESIGN (DER EINFLUSS VON GELOGIE UND GEOTECHNIK AUF DEN ENTWURF VON TALPERREN), W85-03269	1807 8E	TOKYO METROPOLITAN UNIV. (JAPAN). DEPT. OF CHEMISTRY. Vertical Distribution of Organic Constituents in an Antarctic Lake: Lake Vanda, W85-00418	1801 2H
<b>THESSALONIKI UNIV., SALONIKA (GREECE). DEPT. OF GENERAL AND AGRICULTURAL HYDRAULICS AND RECLAMATION.</b>		TOHOKU UNIV., SENDAI (JAPAN). BIOLOGICAL INST. Effects of the Oligochaete Branchiura sowerbyi Beddard (Tubificidae) on the Biological and Chemical Characteristics of Overlying Water and Soil in a Submerged Ricefield Soil System, W85-01482	1803 2H	TOKYO UNIV. (JAPAN). DEPT. OF URBAN ENGINEERING. Estimation of Acceptable Water Quality Conditions in the Tama River, Japan, W85-01403	1803 5B
Computation of the Unsteady Two-Dimensional Free Surface of Groundwater by the Finite-Element Method, W85-03082	1806 2F	STUDY OF DOMESTIC SEWAGE WASTE TREATMENT BY THE POLYCHAETES, NEANTHES JAPONICA AND PERINERIA NUNTA VAR. VALITATA, ON AN ARTIFICIAL TIDAL FLAT, W85-04903	1809 5D	TOKYO UNIV. (JAPAN). INST. OF APPLIED MICROBIOLOGY. Seasonal and Areal Features of the Lagoonal Environment in Lake Nakoumi, a Shallow Coastal Lagoon in Japan, W85-01476	1803 6G
<b>THESSALONIKI UNIV., SALONIKA (GREECE). ENVIRONMENTAL POLLUTION CONTROL LAB.</b>		TOHOKU UNIV., SENDAI (JAPAN). DEPT. OF FISHERY SCIENCE. Effects of Treated Municipal Wastewater on the Early Development of Sargassaceous Plants, W85-03504	1807 5C	TOKYO UNIV. OF AGRICULTURE AND TECHNOLOGY (JAPAN). DEPT. OF ENVIRONMENTAL SCIENCE AND CONSERVATION. Parameterized Model for Thermosolutal Convection due to Surface Cooling, W85-00933	1802 2H
Identification and Determination of Some Trace Organic Compounds in Coastal Seawater of Northern Greece, W85-05016	1810 5B	TOKAI UNIV., SHIZOUKA (JAPAN). FACULTY OF MARINE SCIENCE AND TECHNOLOGY. Year-to-Year Change in Water Exchange Characteristics in a Semi-Enclosed Bay, Lake Hamana, W85-02532	1805 2L	Behaviour of Proteinaceous Substances in the Estuary of the Tama River, W85-02531	1805 2L
<b>THESSALONIKI UNIV., SALONIKA (GREECE). LAB. OF HYDRAULIC STRUCTURES.</b>		TOYOKO GAKUGEI UNIV. (JAPAN). DEPT. OF BIOLOGY. Separated Distribution of the Two Varieties of Achianthes minutissima Kuetz. According to the Degree of River Water Pollution, W85-06001	1811 5C	TOKYO UNIV. OF AGRICULTURE AND TECHNOLOGY (JAPAN). FACULTY OF AGRICULTURE. Dissolved Organic Carbon as a Controlling Factor in Oxygen Consumption in Natural and Man-made Waters, W85-00530	1802 5B
Interfacial Resistance in Stratified Flows, W85-01502	1803 8B	TOKYO INST. OF TECH. (JAPAN). DEPT. OF CIVIL ENGINEERING. Water Surface Profile of Stream with Side Overflow, W85-03792	1808 2E	TOKYO UNIV. OF AGRICULTURE AND TECHNOLOGY (JAPAN). LAB. OF BIOLOGY. Seasonal Fluctuation in the Number of Aerobic Heterotrophic Bacteria and Its Relation to Environmental Factors in the Upstream Area of the Tamagawa River (in Japanese), W85-00193	1801 2H
<b>THESSALONIKI UNIV., SALONIKA (GREECE). LAB. OF HYDRAULICS AND HYDRAULIC WORKS.</b>		CENTRIFUGE MODEL TESTS ON BEARING CAPACITY OF CLAY, W85-03813	1808 8D	TOKYO UNIV. OF AGRICULTURE AND TECHNOLOGY (JAPAN). DEPT. OF LIBERAL EDUCATION. Pilot Plant Treatment of Swine Wastes by the Deep Shaft Method, W85-05411	1810 5D
Analytical Treatment of Unsteady Horizontal Seepage, W85-03782	1808 2F	TOKYO INST. OF TECH. (JAPAN). RESEARCH LAB. OF RESOURCES UTILIZATION. Change in Microbial Numbers During Thermophilic Composting of Sewage Sludge with Reference to CO <sub>2</sub> Evolution Rate, W85-04259	1808 5E	TOKYO UNIV. OF FISHERIES (JAPAN). Toxicity and Accumulation of Mercury in Fish, the Himekawa <i>Oryzias latipes</i> , W85-00138	1801 5C
<b>THESSALONIKI UNIV., SALONIKA (GREECE). SCHOOL OF TECHNOLOGY.</b>		CHARACTERISTICS OF MESOPHILIC BACTERIA ISOLATED DURING THERMOPHILIC COMPOSTING OF SEWAGE SLUDGE, W85-04260	1808 5E		
Similarity and Iterative Solution of the Boussinesq Equation, W85-03080	1806 2F				
Simplified Determination and Sensitivity Analysis of Soil-Moisture Retention Curves and Hydraulic Conductivity, W85-03755	1807 2G				
Periodic Recharge to Finite Aquifers from Rectangular Areas, W85-04174	1808 2F				
<b>THURBER CONSULTANTS LTD., VANCOUVER (BRITISH COLUMBIA).</b>					
Quantitative Analysis of Debris Torrent Hazards for Design of Remedial Measures, W85-05529	1810 2J				
<b>TIERÄRZTLICHE HOCHSCHULE HANNOVER (GERMANY, F.R.). CHEMISCHE INST.</b>					
Separation of Molybdoheteropoly Acids of Phosphorus, Arsenic, Silicon and Germanium as Ion-Associates by HPLC. Application to Quantitative Determination in Water, W85-06764	1812 5A				

## ORGANIZATIONAL INDEX

### TOKYO UNIV. OF FISHERIES (JAPAN). DEPT. OF FOOD SCIENCE AND TECHNOLOGY.

#### TOKYO UNIV. OF FISHERIES (JAPAN). DEPT. OF FOOD SCIENCE AND TECHNOLOGY.

Relationships of Total Coliform, Fecal Coliform, and Organic Pollution Levels in the Tamagawa River,  
W85-02717 1806 5C

#### TOKYO UNIV. OF FISHERIES (JAPAN). LAB. OF MARINE CHEMISTRY.

Behaviour of Dissolved Silica During the Mixing of River and Sea Waters in Tokyo Bay,  
W85-03632 1807 2H

#### TOLEDO EDISON CO., OH.

Occurrence of the Asiatic Clam Corbicula fluminea in the Maumee River and Western Lake Erie,  
W85-01753 1804 5C

#### TOLEDO UNIV., OH.

Oil Spill Focuses Attention on the Problems of a Man-Made Recreational Lake,  
W85-01650 1804 5B

Design-Oriented Reverse Osmosis Model,  
W85-05293 1810 5D

#### TOLEDO UNIV., OH. DEPT. OF BIOLOGY.

Differential Response of Marine Organisms to Certain Metal and Agrichemical Pollutants,  
W85-02783 1806 5A

#### TONGASS NATIONAL FOREST,

#### KETCHIKAN, AK.

Non-Explosive Demolition of Rock to Improve Fish Habitat,  
W85-03837 1808 8I

#### TONGJI UNIV., SHANGHAI (CHINA).

Use of Icebergs to Supply Water (Die Verwendung von Eisbergen zur Wasserversorgung),  
W85-04625 1809 3B

#### TONGJI UNIV., SHANGHAI (CHINA). DEPT. OF ENVIRONMENTAL ENGINEERING.

Study on Reuse of Water in a Woolen Mill,  
W85-05416 1810 5D

#### TONTO NATIONAL FOREST, PHOENIX, AZ.

Fecal Coliform in the Salt River Recreation Areas of Arizona,  
W85-02394 1805 5B

#### TORAY INDUSTRIES, INC., OTSU (JAPAN).

Reaction Kinetics of Sodium Bisulfite and Dissolved Oxygen in Seawater and Their Applications to Seawater Reverse Osmosis,  
W85-03973 1808 3A

#### TORONTO UNIV. (ONTARIO). DEPT. OF BOTANY.

Effect of Wind on the Transpiration of Young Trees,  
W85-00626 1802 2D

#### TORONTO UNIV. (ONTARIO). DEPT. OF CIVIL ENGINEERING.

Horizontal Drains to Stabilize Clay Slopes,  
W85-00143 1801 8D

Temporal Changes of Groundwater Pressure in a Natural Slope of Nonfissured Clay,  
W85-03420 1807 2G

Commercial Mining Technique Offers a New Approach to Removing Heavy Metals from Sludges,  
W85-04767 1809 5D

Application of Carrier/Activated Sludge Process for Treatment of Phenolic Wastewater,  
W85-05552 1810 5D

Removal of Heavy Metals from Wastewater by Application of Hot Iron Desulfurization Slag,  
W85-07108 1812 5D

#### TORONTO UNIV. (ONTARIO). DEPT. OF GEOGRAPHY.

Empirical Basis for Municipal Water Rates Modification,  
W85-04688 1809 3D

#### TORONTO UNIV. (ONTARIO). DEPT. OF GEOLOGY.

Multistage Model for the Development of Hydrochemical Zonation in Chalk Ground Waters,  
W85-04634 1809 2K

Nitrification in a Major Limestone Aquifer,  
W85-06048 1811 2F

#### TORONTO UNIV. (ONTARIO). DEPT. OF ZOOLOGY.

Quantitative Importance of Ciliates in the Planktonic Biomass of Lake Ecosystems,  
W85-01014 1802 2H

Contribution of Ciliated Protozoa to the Planktonic Biomass in a Series of Ontario Lakes: Quantitative Estimates and Dynamical Relationships,  
W85-01045 1802 2H

Avoidance of Sublethal Doses of Copper and Zinc by Tubificid Oligochaetes,  
W85-02889 1806 5C

Preliminary Study of Aquatic Insect Communities and Leaf Decomposition in Acid Streams near Dorest, Ontario,  
W85-06003 1811 5C

#### TORONTO UNIV. (ONTARIO). FACULTY OF FORESTRY.

Stomatal Control of Water Use Efficiency in Poplar Clones and Hybrids,  
W85-01646 1804 2I

#### TORONTO UNIV. (ONTARIO). INST. FOR ENVIRONMENTAL STUDIES.

Red Herrings in Acid Rain Research,  
W85-00288 1801 5B

pH-Related Changes in Attached Algal Communities of Softwater Lakes,  
W85-04201 1808 5C

Apples and Oranges: Toward a Critique of Public Participation in Great Lakes Decisions,  
W85-04573 1809 6A

Fate and Behaviour of Oil Spills,  
W85-05584 1810 5B

#### TOULOUSE-3 UNIV. (FRANCE). LAB. D'HYDROBIOLOGIE.

Riou Mort, a Tributary of the Lot Polluted by Heavy Metals. III. General Faunistic Study (Le Riou Mort, affluent du Lot, pollué par métaux lourds. III. Etude faunistique générale),  
W85-00090 1801 5C

#### TOWSON STATE UNIV., BALTIMORE, MD. DEPT. OF BIOLOGICAL SCIENCES.

Water Relations of Oak Species On and Adjacent to a Maryland Serpentine Soil,  
W85-03015 1806 2I

#### TRANSPORT AND ROAD RESEARCH LAB., CROWTHORNE (ENGLAND).

Reinforcement Corrosion and the Durability of Concrete Bridges,  
W85-02950 1806 8A

#### TRC ENVIRONMENTAL CONSULTANTS, INC., EAST HARTFORD, CT.

Field Investigation and Remedial Action at a Site Contaminated with Coal Tars,  
W85-05377 1810 5E

#### TREATY AND ABORIGINAL RIGHTS RESEARCH CENTER OF MANITOBA, INC., WINNIPEG.

Postimpoundment Change in Financial Performance of the Southern Indian Lake Commercial Fishery,  
W85-00644 1802 6G

#### TRENT UNIV., PETERBOROUGH (ONTARIO).

Historical Changes in Anthropogenic Lead Fall-out in Southern Ontario, Canada,  
W85-02063 1804 5B

Measurement of Operationally Defined Lead Fractions in Sediments from Several Lakes,  
W85-02632 1805 5B

#### TRENT UNIV., PETERBOROUGH (ONTARIO). DEPT. OF BIOLOGY.

Heavy Metals in the Sediments of Llangorse Lake, Wales Since Celtic-Roman Times,  
W85-05625 1810 5B

#### TRENT UNIV., PETERBOROUGH (ONTARIO). DEPT. OF CHEMISTRY.

Estimation of Acidity in Rainfall by Electrical Conductivity,  
W85-05520 1810 5A

#### TRENT UNIV., PETERBOROUGH (ONTARIO). ENVIRONMENTAL AND RESOURCE STUDIES PROGRAM.

Long Distance Transport of Anthropogenic Lead as Measured by Lake Sediments,  
W85-05691 1810 5B

#### TRENT UNIV., PETERBOROUGH (ONTARIO). FRESHWATER SCIENCE PROGRAMME.

Comparison of Lead and Zinc Sediment Profiles from Cores Taken by Diver and a Gravity Corer,  
W85-01011 1802 5A

#### TRISTE UNIV. (ITALY). IST. DI MERCEOLOGIA.

Determination of Cadmium and Lead in Natural Waters,  
W85-03278 1807 5A

#### TRINITY COLL., DUBLIN (IRELAND). DEPT. OF BOTANY.

Diurnal Course of Plant Water Potential, Stomatal Conductance and Transpiration in a Papirus (Cyperus papyrus L.) Canopy,  
W85-02341 1805 2I

#### TRINITY COLL., DUBLIN (IRELAND). DEPT. OF GEOGRAPHY.

Accelerated Soil Erosion in a Karst Area: The Burren, Western Ireland,  
W85-00007 1801 2J

#### TRITON, WASHINGTON, DC.

Sewage Plant Provides Energy for District Heating System,  
W85-04770 1809 5D

#### TROJAN TECHNOLOGIES, INC., LONDON (ONTARIO).

Ultraviolet Disinfection of Secondary Effluent,  
W85-01654 1804 5D

#### TRONDHEIM UNIV. (NORWAY).

Effects of Rotenone Treatment on the Benthic Fauna of a Small Eutrophic Lake,  
W85-02653 1805 5C

#### TRONDHEIM UNIV. (NORWAY). DIV. OF HYDRAULIC AND SANITARY ENGINEERING.

Survival and Detection of *Bacteroides* spp., Prospective Indicator Bacteria,  
W85-04262 1808 5A

## ORGANIZATIONAL INDEX

**UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO, MEXICO CITY, FACULTAD DE**

<b>TROPICAL DEVELOPMENT AND RESEARCH INST., LONDON (ENGLAND).</b>	
Low Concentration Effects of Endosulfan Insecticide on Reproductive Behaviour in the Tropical Cichlid Fish Sarotherodon mossambicus, W85-02967	1806 5C
<b>TSUKUBA UNIV., IBARAKI, JAPAN, INST. OF BIOLOGICAL SCIENCES.</b>	
Copper Effect on Dynamics of Organic Materials in Marine Controlled Ecosystems, W85-00872	1802 5C
<b>TSUKUBA UNIV. (JAPAN). INST. OF BIOLOGICAL SCIENCES.</b>	
Phytoplankton Diversity in Inland Waters of Different Trophic Status, W85-03506	1807 2H
Microbial Contribution to the Mesotrophic Ecosystem of the Campbell River Estuary During Summer, W85-04673	1809 2L
Uptake of Carbon and Inorganic Nitrogen in a Eutrophic Lake, Lake Nakanuma, Japan, from Spring Through Summer, W85-06400	1812 2H
Applicability of the Stable Isotope Method using $^{13}\text{C}$ and $^{15}\text{N}$ Simultaneously to the Estimation of Carbon and Nitrogen Assimilation in a Eutrophic, Freshwater Lake, Lake Nakanuma, Japan, W85-06445	1812 2H
<b>TSUKUBA UNIV. (JAPAN). INST. OF GEOSCIENCE.</b>	
Stormflow Generation in a Headwater Basin in the Tama Hills (in Japanese), W85-00190	1801 2E
<b>TUCSON WATER DEPT., AZ.</b>	
Transport of Organic Compounds Dissolved in Ground Water, W85-06829	1812 5B
<b>TUEBINGEN UNIV. (GERMANY, F.R.). INST. FUER CHEMISCHE PFLANZENPHYSIOLOGIE.</b>	
Evidence of Ectocarpen and Dictryopterenes A and C in the Water of a Freshwater Lake, W85-03879	1808 2H
Organic Activators and Inhibitors of Algal Growth in Water of a Eutrophic Shallow Lake, W85-04055	1808 2H
<b>TUFTS UNIV., MEDFORD, MA. DEPT. OF BIOLOGY.</b>	
Modification of Bog Vegetation by Power Utility Rights-of-way, W85-06606	1812 4C
<b>TULANE UNIV., NEW ORLEANS, LA.</b>	
Reclamation of the Pearl River, A Perspective of Unpolluted Versus Polluted Waters, W85-05725	1810 5G
<b>TULANE UNIV., NEW ORLEANS, LA. DEPT. OF BIOLOGY.</b>	
Effects of Temperature on the Locomotor Activity of the Bluegill Sunfish, <i>Lepomis macrochirus</i> , W85-06487	1812 5C
<b>TULANE UNIV., NEW ORLEANS, LA. SCHOOL OF MEDICINE.</b>	
Case-Control Cancer Mortality Study and Chlorination of Drinking Water in Louisiana, W85-01213	1803 5C
<b>TULSA UNIV., OK. COLL. OF ENGINEERING AND PHYSICAL SCIENCES.</b>	
Numerical Estuarine Flow Model, W85-04987	1810 2L
Numerical Model of Pollution Transport in Estuaries, W85-04988	1810 5B
<b>TURKU UNIV. (FINLAND). DEPT. OF PUBLIC HEALTH.</b>	
Recovery and Reproducibility in Determination of Volatile Halocarbons in Water and Blood, W85-06526	1812 5A
<b>UDAIPUR UNIV. (INDIA). DEPT. OF LIMNOLOGY AND FISHERIES.</b>	
Acute Toxicity of Phenol, Pentachlorophenol and Sodium Pentachlorophenate to a Freshwater Ostracod <i>Cypria subglobosa</i> (Sowerby), W85-06271	1812 5C
<b>UKRAINE INST. OF WATER CONSERVATION, ROVNO (USSR).</b>	
Latest Results at the Deep-Current Aeration Facility in Rovno (USSR) (Neueste Ergebnisse über die Tiefstrombelüftungsanlage in Rovno (UdSSR)), W85-03460	1807 5D
<b>UKRAINIAN RESEARCH INST. OF FORESTRY AND AGRICULTURE, IVANOVO-FRANKOVSK (USSR).</b>	
System of Practices for Preventing Water by Agricultural Chemicals, W85-04619	1809 5G
<b>UMEA UNIV. (SWEDEN).</b>	
Equilibrium Approaches to Natural Water Systems - Part 4; Determination of Alkalinity of Organic Bases in an Anoxic Hypolimnetic Lake Water, W85-04074	1808 2K
<b>UMEA UNIV. (SWEDEN). DEPT. OF ECOLOGICAL BOTANY.</b>	
Annual Sediment Accumulation and Land Use History; Investigations of Varved Lake Sediments, W85-05627	1810 2J
<b>UMEA UNIV. (SWEDEN). DEPT. OF PHYSICAL GEOGRAPHY AND GEOECOLOGY.</b>	
Metals in Fish and Sediments from the River Kolbackssan Water System, Sweden, W85-02896	1806 5B
<b>UMGENI WATER BOARD, PIETERMARITZBURG (SOUTH AFRICA).</b>	
Lead Hazard Controlled in Scottish Water Systems, W85-02402	1805 5B
<b>UNION CARBIDE CORP., OAK RIDGE, TN. COMPUTER SCIENCES DIV.</b>	
Subsampling Program for the Estimation of Fish Impingement, W85-04604	1809 5C
<b>UNION COLL., BARBOURVILLE, KY. DEPT. OF BIOLOGY.</b>	
Seasonal Abundances of the Psammic Rotifers of a Physically Controlled Stream, W85-01008	1802 2H
<b>UNION COLL., SCHENECTADY, NY. DEPT. OF BIOLOGY.</b>	
Temperature and Light Effects on the Growth of <i>Potamogeton crispus</i> in Collins Lake, New York State, W85-05523	1810 4A
<b>UNITED ENGINEERS AND CONSTRUCTORS, INC., PHILADELPHIA, PA.</b>	
Numerical Three-Dimensional Free Surface Circulation Model for the South Biscayne Bay, Florida, W85-04016	1808 2L
<b>UNITED NATIONS CHILDREN'S FUND, KAMPALA (UGANDA).</b>	
Effects of Water Quality and Water Quantity on Nutritional Status: Findings from a South Indian Community, W85-06216	1812 5C
<b>UNITED NATIONS ENVIRONMENT PROGRAMME, NAIROBI (KENYA).</b>	
Population Crisis and Desertification in the Sudan-Saharan Region, W85-03204	1806 4D
<b>UNITED NATIONS, NEW YORK. DEPT. OF TECHNICAL CO-OPERATION FOR DEVELOPMENT.</b>	
Legislation on Domestic and Industrial Uses of Water: A Comparative Review, W85-01242	1803 6E
<b>UNITED STATES COMMITTEE ON LARGE DAMS, NEW YORK.</b>	
Guidelines for Inspection of Dams Following Earthquakes, W85-00043	1801 8E
<b>UNITED STATES OZONAIR CORP., SOUTH SAN FRANCISCO, CA.</b>	
Why Ozone is a Viable Alternative to Chemicals for the Treatment of Cooling Tower and Heat Exchanger Water, W85-05992	1811 5F
<b>UNITEX CORP., SALT LAKE CITY, UT.</b>	
Storm Runoff and Water Quality on Three Ephemeral Washes in the Price River Basin, Utah, W85-01325	1803 5C
<b>UNIVERSIDAD AUSTRAL DE CHILE, VALDIVIA. INST. DE ZOOLOGIA.</b>	
Morphological Study of Lake Ranco (Chile); Morphometry, Physics, Chemistry and Plankton, W85-00108	1801 2H
<b>UNIVERSIDAD AUTONOMA DE BARCELONA (SPAIN). DEPT. DE MICROBIOLOGIA.</b>	
Zooplankton Dynamics in Lake Mendota: Short-term Versus Long-term Changes, W85-04897	1809 2H
<b>UNIVERSIDAD AUTONOMA DE BARCELONA (SPAIN). DEPT. DE MICROBIOLOGIA.</b>	
Short-term Cadmium Effects on Gill Tissue Metabolism, W85-04381	1808 5C
<b>UNIVERSIDAD AUTONOMA DE MADRID (SPAIN). DEPT. DE GEOLOGIA.</b>	
Ground-Water Age Distribution in Madrid Basin, Spain, W85-00346	1801 2F
<b>UNIVERSIDAD CENTRAL DE VENEZUELA, CARACAS. INST. DE MECANICA DE FLUIDOS.</b>	
Secondary Flow in Curved Open Channels, W85-05831	1810 2E
<b>UNIVERSIDAD DE ORIENTE, CUMANA (VENEZUELA). INST. OCEANOGRAFICO.</b>	
Seasonal Change in Thermal Tolerance of Common Estuarine Crustaceans, W85-00140	1801 5C
<b>UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO, MEXICO CITY. FACULTAD DE INGENIERIA.</b>	
Stresses and Displacements in an Aquifer due to Seepage Forces (One-Dimensional Case), W85-02489	1805 2F

## ORGANIZATIONAL INDEX

**UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO, MEXICO CITY. INST. DE BIOLOGIA.**

**UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO, MEXICO CITY. INST. DE BIOLOGIA.**

Effects of Water Stress on Internal Water Relations of Apple Leaves,  
W85-06103 1811 2I

**UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO, MEXICO CITY. INST. DE INGENIERIA.**

Fluidic Vortex Device for Water Treatment Processes,  
W85-01228 1803 5D

Aerobic and Anaerobic Intermediate Storage of Activated Sludge: Efficiency Study,  
W85-03869 1808 5D

**UNIVERSIDAD NACIONAL DEL COMAHUE, BUENOS AIRES (ARGENTINA). DEPT. DE QUIMICA.**

Cholinesterase Activities in Developing Amphibian Embryos Following Exposure to the Insecticides Dieldrin and Malathion,  
W85-05106 1810 5C

**UNIVERSIDAD NACIONAL DEL SUR, BAHIA BLANCA (ARGENTINA). DEPT. DE AGRONOMIA.**

Effect of Gibberellic Acid on the Buoyancy of Spirodela intermedia W. Koch,  
W85-05610 1810 5G

**UNIVERSIDAD SIMON BOLIVAR, CARACAS (VENEZUELA). DEPT. DE PROCESOS Y SISTEMAS.**

Modeling Sediment and Water Column Interactions for Hydrophobic Pollutants. Parameter Discrimination and Model Response to Input Uncertainty,  
W85-02437 1805 5B

**UNIVERSIDAD SIMON BOLIVAR, CARACAS (VENEZUELA). GRADUATE PROGRAM IN HYDROLOGY AND WATER RESOURCES.**

Scale Considerations in the Modeling of Temporal Rainfall,  
W85-03559 1807 2B

**UNIVERSIDADE ESTADUAL PAULISTA, BOTUCATU (BRAZIL). INST. BASICO DE BIOLOGIA MEDICA E AGRICOLA.**

Effects of Phosphorus and Nitrogen Enrichment on the Phytoplankton in a Tropical Reservoir (Lobo Reservoir, Brazil),  
W85-03694 1807 2H

**UNIVERSIDADE FEDERAL DE SAO CARLOS (BRAZIL). DEPT. DE CIENCIAS BIOLOGICAS.**

Mixing Patterns in Amazon Lakes,  
W85-01004 1802 2H

**UNIVERSIDADE FEDERAL DE SAO CARLOS (BRAZIL). DEPT. DE QUIMICA.**

Humic Substances in Amazonia I: Chemical Characterization of Humic and Fulvic Acids from Two Central Amazonia Lacustrine Sediments (Black and White Water Systems),  
W85-02234 1805 2H

**UNIVERSIDADE FEDERAL DE SAO CARLOS (BRAZIL). LAB. OF LIMNOLOGY.**

Levels of Phosphate, Calcium, Magnesium and Organic Matter in the Sediments of Some Brazilian Reservoirs and Implications for the Metabolism of the Ecosystems,  
W85-00870 1802 2H

Responses of the Phytoplankton Community of a Tropical Reservoir (Sao Paulo, Brazil) to the Enrichment with Nitrate, Phosphate and EDTA,  
W85-04908 1809 2H

Contribution of Two Aquatic Macrophytes to the Nutrient Budget of Lobo Reservoir, Sao Paulo, Brazil,  
W85-05649 1810 2H

**UNIVERSIDADE FEDERAL DO RIO DE JANEIRO (BRAZIL). INST. DE BIOFISICA.**

Uptake and Release of 51Cr(VI) and 51Cr(III) by Barnacles (*Balanus sp*),  
W85-01353 1803 5B

Mineral Distribution and Ecological Role of a Recently Formed Halophyte Community in the Guanabara Bay Rio De Janeiro,  
W85-04851 1809 5C

**UNIVERSIDADE FEDERAL FLUMINENSE, NITEROI (BRAZIL).**

Size and Metal Concentration in the Mangrove Mussel *Mytella guyanensis* (Mollusca: Bivalva) from Baia de Sepetiba, Brazil,  
W85-02718 1806 5A

**UNIVERSIDADE NOVA DE LISBOA (PORTUGAL). DEPT. OF CHEMISTRY AND BIOTECHNICS.**

Trace Metal Content of Live Tissues in *Haliomone portulacoides* from Coastal Areas of the Sado Estuary, Portugal,  
W85-02959 1806 5B

Vertical Distribution of Al, Cu, Fe and Zn in the Soil Salt Marshes of the Sado Estuary, Portugal,  
W85-05032 1810 5B

**UNIVERSIDADE NOVA DE LISBOA (PORTUGAL). SANITARY ENGINEERING GROUP.**

Qual II Model,  
W85-02821 1806 5A

**UNIVERSITA DI REGGIO CALABRIA, COSENZA (ITALY). DIPT. DI DIFESA DEL SUOLO.**

Flood-Induced Bed Changes in Alluvial Streams,  
W85-05004 1810 2E

Regional Flood Frequency Estimation Using the Two-Component Extreme Value Distribution,  
W85-05903 1811 2A

**UNIVERSITAET DES SAARLANDES, SAARBRUCKEN (GERMANY, F.R.). FACHRICHTUNG MIKROBIOLOGIE.**

River Hull, a Northern English Chalk Stream: The Zonation of the Macro-Invertebrate Fauna with Reference to Physical and Chemical Features,  
W85-00627 1802 2H

**UNIVERSITAET FUER BODENKULTUR, VIENNA (AUSTRIA). INST. FUER MATHEMATIK AND ANGEWANDTE STATISTIK.**

Extreme Value Processes and the Evaluation of Risk in Flood Analysis,  
W85-06561 1812 2E

**UNIVERSITE CATHOLIQUE DE LOUVAIN, LOUVAIN-LA-NEUVE (BELGIUM). UNIT OF GENIE RURAL.**

Hydrological Measurement Using a Public Telephone System (Telemesure Hydrologique par Reseau Telephonique Commute),  
W85-00389 1801 7B

**UNIVERSITE CATHOLIQUE DE LOUVAIN, LOUVAIN-LA-NEUVE (BELGIUM). UNIT OF MANAGEMENT AND WATER RESOURCES.**

Statistical Relationship Between Apparent Dielectric Constant and Water Content in Porous Media,  
W85-05184 1810 2G

**UNIVERSITE CATHOLIQUE DE LOUVAIN, LOUVAIN-LA-NEUVE (BELGIUM). UNITE D'ECOLOGIE ET DE BIOGEOGRAPHIE.**

Effects of H<sub>2</sub>SO<sub>3</sub> and H<sub>2</sub>SO<sub>4</sub> on *Anabaena cylindrica* (Les Effets du H<sub>2</sub>SO<sub>3</sub> et du H<sub>2</sub>SO<sub>4</sub> Sur *Anabaena cylindrica* (Cyanophage)),  
W85-05071 1810 5C

**UNIVERSITE LIBRE DE BRUXELLES (BELGIUM). LAB. D'OCEANOGRAPHIE.**

Changes in the Quality of River Oise Water During Retention in the Storage Basin at Mery (France) (Evolution de la Qualite de la Riviere Oise lors de sa Retention dans le Bassin de 'Storage' de Mery (France)),  
W85-05635 1810 2H

**UNIVERSITE LIBRE DE BRUXELLES (BELGIUM). LAB. DE PHYSIOLOGIE VEGETALE.**

Chlorophyll Fluorescence Induction: A Sensitive Indicator of Water Stress in Maize Plants,  
W85-05931 1811 2I

**UNIVERSITY COLL., CARDIFF (WALES). DEPT. OF APPLIED BIOLOGY.**

Distribution of Bacterial Plasmids in Clean and Polluted Sites in a South Wales River,  
W85-00094 1801 5C

**UNIVERSITY COLL., CARDIFF (WALES). DEPT. OF BIOCHEMISTRY.**

Survey of Sodium Dodecyl Sulphate (SDS) Resistance and Alkylsulphatase Production in Bacteria from Clean and Polluted River Sites,  
W85-05848 1811 5C

**UNIVERSITY COLL., CARDIFF (WALES). DEPT. OF PLANT SCIENCE.**

Studies on the Sediments and Planktonic Algae of the Polluted Khora Canal and the Shatt al-Arab River at Basrah, Iraq,  
W85-00797 1802 5C

Primary Productivity of the River Ely, South Wales, U.K.,  
W85-00996 1802 5C

Studies on the Bottom Sediments and Epipelagic Algae of the River Ely, South Wales, U.K.,  
W85-05611 1810 5C

Seasonal Variations of Dissolved Organic Matter in the River Ely, South Wales, U.K.,  
W85-05612 1810 5C

Studies on the Bottom Sediments of Al-Hammar Marsh Area in Southern Iraq,  
W85-05613 1810 2L

**UNIVERSITY COLL., CARDIFF (WALES). DEPT. OF ZOOLOGY.**

Minimizing the Possible Effects of a Tidal Power Barrage on the Shorebird Populations of the Severn Estuary,  
W85-01158 1803 6G

**UNIVERSITY COLL., CORK (IRELAND). DEPT. OF CHEMISTRY.**

Electroanalysis of Organic Pollutants in Aquatic Matrices,  
W85-02310 1805 5A

**UNIVERSITY COLL., CORK (IRELAND). DEPT. OF CIVIL ENGINEERING.**

Finite Element Solutions for Mass Oscillations in Surge Tanks,  
W85-04155 1808 8B

**UNIVERSITY COLL., DUBLIN (IRELAND). DEPT. OF CIVIL ENGINEERING.**

Waters of the Earth,  
W85-01135 1803 2A

**UNIVERSITY COLL., DUBLIN (IRELAND). DEPT. OF INDUSTRIAL MICROBIOLOGY.**

Lysis as a Factor in Sludge Flocculation,  
W85-04299 1808 5D

## ORGANIZATIONAL INDEX

**UNIVERSITY OF SOUTHERN MISSISSIPPI, HATTIESBURG. DEPT. OF BIOLOGICAL**

<b>UNIVERSITY COLL., DUBLIN (IRELAND). DEPT. OF ZOOLOGY.</b>					
Heavy Metal Uptake and Intracellular Binding in Isolated Gill Preparations of <i>Mytilus galloprovincialis</i> L., W85-04358	1808	5C			
<b>UNIVERSITY COLL., GALWAY (IRELAND). DEPT. OF ENGINEERING HYDROLOGY.</b>					
Factors Affecting Choice of Distribution for Flood Series, W85-05901	1811	2E			
<b>UNIVERSITY COLL., GALWAY (IRELAND). DEPT. OF MICROBIOLOGY.</b>					
Silage Effluent Digestion by an Upflow Anaerobic Filter, W85-00556	1802	5F			
Fluxes of Organic Carbon in a Fjord on the West Coast of Ireland, W85-02656	1805	2L			
<b>UNIVERSITY COLL., LONDON (ENGLAND).</b>					
Spatial Variations in the Water Quality of Lough Erne, Northern Ireland, on the Basis of Surface Sediment Diatom Analysis, W85-02843	1806	2H			
<b>UNIVERSITY COLL., LONDON (ENGLAND). DEPT. OF GEOGRAPHY.</b>					
Inwash of Catchment Diatoms as a Source of Error in the Sediment-Based Reconstruction of pH in an Acid Lake, W85-03880	1808	5A			
<b>UNIVERSITY COLL., LONDON (ENGLAND). DEPT. OF MATHEMATICS.</b>					
Alternative Approach to Linear and Nonlinear Stability Calculations at Finite Reynolds Numbers, W85-03749	1807	8B			
<b>UNIVERSITY COLL., LONDON (ENGLAND). PALAEOECOLOGY RESEARCH UNIT.</b>					
Sediment Supply and Accumulation in a Small Moroccan Lake: An Historical Perspective, W85-00792	1802	2J			
Lake Acidification in Galloway: A Palaeoecological Test of Competing Hypotheses, W85-06013	1811	5B			
<b>UNIVERSITY COLL. OF NORTH WALES, BANGOR. SCHOOL OF ANIMAL BIOLOGY.</b>					
Spatial Uptake of Dissolved Organic Carbon in River Beds, W85-01009	1802	5B			
Microcalorimetric Approach to Determine Relationships Between Energy Supply and Metabolism in River Epilithon, W85-05052	1810	2H			
<b>UNIVERSITY COLL. OF NORTH WALES, MENAI BRIDGE. MARINE SCIENCE LABS.</b>					
Inhibitions to Pollutant Dissipation in the Northeast Irish Sea, W85-01485	1803	5B			
Dissolved Silicon in a North Wales Catchment of High Relief, W85-06728	1812	2K			
<b>UNIVERSITY COLL. OF SWANSEA (WALES). DEPT. OF BOTANY AND MICROBIOLOGY.</b>					
Sewage-Derived Bacteria Monitored in a Marine Water Column by Means of Captive Mussels, W85-04868	1809	5A			
<b>UNIVERSITY COLL. OF SWANSEA (WALES). DEPT. OF ZOOLOGY.</b>					
Effects of Zinc on the Ultrastructure of the Brain Cells of the Larvae of <i>Clupea harengus</i> L., W85-03689	1807	5C			
<b>UNIVERSITY COLL. OF WALES, ABERYSTWYTH. DEPT. OF GEOGRAPHY.</b>					
Flood Effects on the Transport of Heavy Metals, W85-00510	1802	5B			
<b>UNIVERSITY OF AGRICULTURAL SCIENCES, BANGALORE (INDIA).</b>					
Analysis of Trends in the Rainfall and Droughts Occurring in the Southwest Monsoon and Northeast Monsoon Systems in the Southern Peninsular India, W85-05087	1810	2B			
<b>UNIVERSITY OF AGRICULTURE, GODOLO (HUNGARY).</b>					
Wastewater Disposal and Utilization in Agriculture in Poland and Hungary, W85-04664	1809	5E			
<b>UNIVERSITY OF CENTRAL FLORIDA, ORLANDO. DEPT. OF CIVIL ENGINEERING AND ENVIRONMENTAL SCIENCE.</b>					
Fate of Heavy Metals in Stormwater Runoff from Highway Bridges, W85-00746	1802	5B			
<b>UNIVERSITY OF EAST ANGLIA, NORWICH (ENGLAND). CLIMATIC RESEARCH UNIT.</b>					
Riverflow Reconstructions and Their Use, Part 2, W85-00758	1802	2E			
Influences of Precipitation Changes and Direct CO2 Effects on Streamflow, W85-05855	1811	2A			
<b>UNIVERSITY OF EAST ANGLIA, NORWICH (ENGLAND). SCHOOL OF ENVIRONMENTAL SCIENCES.</b>					
Black Acidic Snow in the Remote Scottish Highlands, W85-03127	1806	5B			
Rainbow SO <sub>2</sub> , Precipitation pH and Airborne SO <sub>2</sub> Over Short Sampling Times Throughout Individual Events, W85-04500	1809	5B			
River Bure, United Kingdom: Patterns of Change in Chemistry and Phytoplankton in a Slow-Flowing Fertile River, W85-05676	1810	2E			
<b>UNIVERSITY OF EAST ANGLIA, NORWICH (ENGLAND). SCHOOL OF MATHEMATICS AND PHYSICS.</b>					
Influence of Non-Uniform Temperature Distribution on the Steady Motion of Ice Sheets, W85-00173	1801	2C			
<b>UNIVERSITY OF NEW ENGLAND, ARMIDALE (AUSTRALIA). DEPT. OF AGRONOMY AND SOIL SCIENCE.</b>					
Effects of Soil Bulk Density and Water Regimen on Root Growth and Uptake of Phosphorus by Ryegrass, W85-06098	1811	2G			
<b>UNIVERSITY OF PETROLEUM AND MINERALS, DHAHRAH (SAUDI ARABIA). DEPT. OF CIVIL ENGINEERING.</b>					
Sensitivity Analysis of the SWMM Runoff-Transport Parameters and the Effects of Catchment Discretisation, W85-04157	1808	2E			
<b>UNIVERSITY OF PETROLEUM AND MINERALS, DHAHRAH (SAUDI ARABIA). DEPT. OF EARTH SCIENCES.</b>					
Effects of Risk and Reliability on Optimal Reservoir Design, W85-01378	1803	8A			
<b>UNIVERSITY OF SOUTH FLORIDA, TAMPA. CHEMICAL AND ENVIRONMENTAL MANAGEMENT SERVICES CENTER.</b>					
Dehalogenation of Three Chlorinated Hydrocarbons: Amine-Assisted Versus Metal-Chelate Assisted, W85-02121	1804	5F			
Investigation of Two Possible Modes of Action of the Inert Dye Aquashade on <i>Hydrilla</i> , W85-02122	1804	4A			
<b>UNIVERSITY OF SOUTH FLORIDA, TAMPA. DEPT. OF BIOLOGY.</b>					
Biological Communities of Three Subtropical Florida Lakes of Different Trophic Character, W85-02240	1805	2H			
Recovery of Selected Pathogens from Naples Bay, Florida, and Associated Waterways, W85-02397	1805	5B			
<b>UNIVERSITY OF SOUTH FLORIDA, TAMPA. DEPT. OF GEOLOGY.</b>					
Evaluation of Electromagnetic Methods for Rapid Mapping of Salt-Water Interfaces in Coastal Aquifers, W85-00330	1801	7B			
Application of Resistivity Surveys to Regional Hydrogeologic Reconnaissance, W85-00357	1801	7B			
<b>UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES. DEPT. OF BIOLOGICAL SCIENCES.</b>					
Effect of Sewage Effluent on the Population Density and Size of the Clam <i>Parvulicina tenuisculpta</i> , W85-02325	1805	5C			
<b>UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES. DEPT. OF CIVIL ENGINEERING.</b>					
Removal of Dieldrin from Water by Activated Carbon, W85-00720	1802	5F			
<b>UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES. DEPT. OF GEOLOGICAL SCIENCES.</b>					
Santa Ana River: An Example of a Sandy Braided Floodplain System Showing Sediment Source Area Imprinting and Selective Sediment Modification, W85-01735	1804	2J			
<b>UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES. DEPT. OF PATHOLOGY.</b>					
Oxygen Consumption Rates of Grunion ( <i>Leuresthes tenuis</i> ) Embryos Exposed to the Petroleum Hydrocarbon, Benzo(a)pyrene, W85-04341	1808	5C			
<b>UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES. FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH.</b>					
Future of Cross-Connection Control, W85-01315	1803	5F			
<b>UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES. SCHOOL OF MEDICINE.</b>					
Histologic and Skeletal Abnormalities in Benzo(a)pyrene-Treated Rainbow Trout Alewife, W85-03223	1807	5C			
<b>UNIVERSITY OF SOUTHERN MISSISSIPPI, HATTIESBURG. DEPT. OF BIOLOGICAL SCIENCES.</b>					
Elution of Enteric Viruses from Mississippi Estuarine Sediments with Lecithin-Supplemented Eluents, W85-02934	1806	5A			

## ORGANIZATIONAL INDEX

### UNIVERSITY OF SOUTHERN MISSISSIPPI, HATTIESBURG. DEPT. OF BIOLOGY.

**UNIVERSITY OF SOUTHERN MISSISSIPPI,  
HATTIESBURG. DEPT. OF BIOLOGY.**  
Response of Fishes to Periodic Spring Floods in  
a Southeastern Stream,  
W85-00130 1801 2H

**UNIVERSITY OF SOUTHWESTERN  
LOUISIANA, LAFAYETTE. DEPT. OF  
BIOLOGY.**  
Effects of Soil Waterlogging on the Energy  
Status and Distribution of *Salix nigra* and *S.  
exigua* (Salicaceae) in the Atchafalaya River  
Basin of Louisiana,  
W85-04943 1809 2I

**UNIVERSITY OF SOUTHWESTERN  
LOUISIANA, LAFAYETTE. DEPT. OF  
CHEMISTRY.**  
Study of the pH of Rain in Lafayette, Louisiana,  
W85-06489 1812 5B

**UNIVERSITY OF STRATHCLYDE, GLASGOW  
(SCOTLAND). DEPT. OF PURE AND  
APPLIED CHEMISTRY.**

Suppression of Interferences in the Determination  
of Lead in Natural and Drinking Waters by  
Graphite-Furnace Atomic Absorption Spec-  
trometry,  
W85-05525 1810 5A

**UNIVERSITY OF THE PACIFIC, STOCKTON,  
CA. DEPT. OF CIVIL ENGINEERING.**  
New Mathematical Modeling System,  
W85-06767 1812 2A

**UNIVERSITY OF THE RYUKYUS, NAHA  
(JAPAN). DEPT. OF MARINE SCIENCES.**  
Sediments of Haneji Inlet and Its Environs, Okinawa,  
Subtropical Japan,  
W85-02880 1806 2J

**UNIVERSITY OF THE SOUTH PACIFIC,  
SUVA (FIJI). SCHOOL OF NATURAL  
RESOURCES.**

Freshwater Wetland Vegetation of Viti Levu,  
Fiji,  
W85-06786 1812 2H

**UNIVERSITY OF WALES INST. OF SCIENCE  
AND TECHNOLOGY, CARDIFF. DEPT. OF  
APPLIED BIOLOGY.**

Ecology of a Land Drainage Channel - II; Biol-  
ogy, Chemistry and Submerged Weed Control,  
W85-00555 1802 4A

Effects of Artificial Freshets on Substratum  
Composition, Benthic Invertebrate Fauna and  
Invertebrate Drift in Two Impounded Rivers in  
Mid-Wales,  
W85-01002 1802 2E

Assessment of *Bacteroides fragilis* Group Organisms as Indicators of Human Faecal Pollution,  
W85-05808 1810 5B

Note on a Membrane Filtration Method for the  
Concentration and Enumeration of Bacterio-  
phages from Water,  
W85-06180 1812 5A

Studies on the Acute Toxicity of Pollutants to  
Freshwater Macroinvertebrates, 2. Phenol,  
W85-06393 1812 5C

Studies on the Acute Toxicity of Pollutants to  
Freshwater Macroinvertebrates; 1. Cadmium,  
W85-06399 1812 5C

**UNIVERSITY OF WEST FLORIDA,  
PENSACOLA. DEPT. OF BIOLOGY.**  
Histopathological Changes in Grass Shrimp Ex-  
posed to Chromium, Pentachlorophenol and  
Dithiocarbamates,  
W85-05894 1811 5C

**UNIVERSITY OF WESTERN ONTARIO,  
LONDON. DEPT. OF APPLIED  
MATHEMATICS.**

Contaminant Dispersion in Some Time-Depend-  
ent Laminar Flows,  
W85-01518 1803 5B

**UNIVERSITY OF WESTERN ONTARIO,  
LONDON. DEPT. OF GEOLOGY.**

Activity Coefficients of Ions in Alkali and Alka-  
line-Earth Chloride Dominated Waters Including  
Seawater,  
W85-01097 1802 2K

Chemical Equilibrium Model for the Illinois  
Basin Formation Waters,  
W85-06872 1812 2K

**UNIVERSITY OF WESTERN ONTARIO,  
LONDON. DEPT. OF ZOOLOGY.**

Preliminary Organic Carbon Budget for a Small  
Dystrophic Lake in Maritime Canada,  
W85-00989 1802 2H

**UNIVERSITY OF WESTERN ONTARIO,  
LONDON. FACULTY OF ENGINEERING  
SCIENCE.**

Predicted and Measured Stresses and Displace-  
ments Around the Darlington Intake Tunnel,  
W85-03421 1807 8E

1-D Pollutant Migration in Soils of Finite  
Depth,  
W85-06024 1811 5B

**UNIVERSITY OF WYOMING RESEARCH  
CORP., LARAMIE. WESTERN RESEARCH  
INST.**

Techniques and Equipment Used in Contami-  
nant Detection at Hoe Creek Underground Coal  
Gasification Experimental Site,  
W85-03182 1806 7B

**UPPSALA UNIV. (SWEDEN). DEPT. OF  
ANALYTICAL CHEMISTRY.**

Interferences in the Determination of Total Ni-  
trogen in Natural Waters by Photo-Oxidation to  
Nitrate-Nitrite Mixture,  
W85-04239 1808 2K

Concentrations of Cadmium, Lead and Copper  
in Filtred Baltic Sea Water Samples Collected  
at Two Seasons in 1969,  
W85-06261 1812 5B

**UPPSALA UNIV. (SWEDEN). DEPT. OF  
ZOOLOGY.**

Characteristic Deformities in Tubificid Oligo-  
chaetes Inhabiting Polluted Bays of Lake  
Vanern, Southern Sweden,  
W85-00985 1802 5C

**UPPSALA UNIV. (SWEDEN). INST. OF  
ZOOPHYSIOLOGY.**

Physiological Disturbances in Rainbow Trout,  
*Salmo gairdneri* (R.) Exposed at Two Tempera-  
tures of Effluents from a Titanium Dioxide In-  
dustry,  
W85-00883 1802 5C

Toxicity of Effluents from a TiO<sub>2</sub> Plant to the  
Harpacticoid Copepod *Nitocra spinipes* Boeck,  
W85-04866 1809 5C

Reduction by a Surfactant of Olfactory Medi-  
ated Attraction Between Juveniles of Arctic  
Charr, *Salvelinus alpinus* (L.),  
W85-06384 1812 5C

Availability of Cadmium to Perfused Rainbow  
Trout Gills in Different Water Qualities,  
W85-06729 1812 5C

Influence of Surfactants on Gill Physiology and  
Cadmium Uptake in Perfused Rainbow Trout  
Gills,  
W85-06741 1812 5C

**UPPSALA UNIV. (SWEDEN).**

**LIMNOLOGISKA INSTITUTIONEN.**

Frequency Distributions of Water Quality Varia-  
bles; Relationships Between Mean and Maxi-  
mum Values,  
W85-00553 1802 5B

Potential Mobility of Phosphorus in Different  
Types of Lake Sediment,  
W85-02567 1805 2H

Characterization of Particulate and Colloidal  
Phosphorus Forms in Water by Continuous  
Flow Density Gradient Centrifugation,  
W85-02614 1805 2H

Transfers between Forms of Sedimentary Phos-  
phorus Induced by Nitrate Treatment,  
W85-02621 1805 2H

Photosynthesis of Submersed Macrophytes in  
Acidified Lakes. I. Carbon Fluxes and Recy-  
cling of CO<sub>2</sub> in *Juncus bulbosus* L.,  
W85-02794 1806 2H

Assessing Phytoplankton and Bacterioplankton  
Production During Early Spring in Lake Erken,  
Sweden,  
W85-03738 1807 2H

Experimental Lake Fertilization: Turnover of  
Nitrogen and Phosphorus in Stratified and Non-  
Stratified Subarctic Lakes in Northern Sweden,  
W85-04534 1809 2H

Variation of Water Quality Parameters in Mes-  
to Hypereutrophic Lakes,  
W85-04536 1809 2H

Experimental Lake Fertilization in the Kuokkel  
Area, Northern Sweden. Phytoplankton Bio-  
mass and Algal Composition in Natural and Fer-  
tilized Subarctic Lakes,  
W85-04910 1809 2H

Influence of Nitrate on the Phosphorus Flux to  
and from Oxygen Depleted Lake Sediments,  
W85-05716 1810 2K

Uptake of Phosphate and Inorganic Nitrogen by  
a Sediment-Algal System in a Subarctic Lake,  
W85-06415 1812 2H

**UPSTATE FRESHWATER INST., INC.,  
SYRACUSE, NY.**  
Scattering and Absorption of Light in Onondaga  
Lake,  
W85-03805 1808 2H

Phosphorus Cycling in Ionically Polluted Onon-  
daga Lake, New York,  
W85-05690 1810 5B

Chloride Loading to Lake Ontario From Onon-  
daga Lake, New York,  
W85-06865 1812 5B

**UPSTATE FRESHWATER INST., SYRACUSE,  
NY.**  
Carbonate Equilibria and the Distribution of In-  
organic Carbon in Saginaw Bay,  
W85-01356 1803 2H

**URBINO UNIV. (ITALY). IST. DI SCIENZE  
CHIMICHE.**  
Sample Enrichment for Gas Chromatographic  
Mass Spectrometric Analysis of Polynuclear Ar-  
omatic Hydrocarbons in Water and in Organic  
Mixtures,  
W85-03411 1807 5A

**USTREDNI USTAV GEOLOGICKY, PRAGUE  
(CZECHOSLOVAKIA).**

Sources of Acidification in Central Europe Esti-  
mated from Elemental Budgets in Small Basins,  
W85-06874 1812 5B

## ORGANIZATIONAL INDEX

**VEB PROJEKTIERUNG WASSERWIRTSCHAFT, COTTBUS (GERMAN D.R.).**

**UTAH STATE UNIV., LOGAN, DEPT. OF AGRICULTURAL AND IRRIGATION ENGINEERING.**

Residential Lawn Irrigation Management,  
W85-01195 1803 3F

Economic Considerations of Deficit Irrigation,  
W85-03817 1808 3F

Comparison of Equations Used for Estimating Agricultural Crop Evapotranspiration with Field Research,  
W85-05131 1810 2D

Hydraulic Ram Use for Sprinkle Irrigation,  
W85-06088 1811 3F

**UTAH STATE UNIV., LOGAN, DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.**

Ionic Strength Correction for Extent of Ammonia Ionization in Freshwater,  
W85-00895 1802 2K

Salt Gradient Ponds: Investment Timing Model,  
W85-03061 1806 3C

Water Demand at Western U.S. Recreation Developments,  
W85-03140 1806 6D

**UTAH STATE UNIV., LOGAN, DEPT. OF FISHERIES AND WILDLIFE.**

Marsh Plant Establishment on Newly Flooded Salt Flats,  
W85-03811 1808 4A

Fire and Herbivory in a Great Salt Lake Marsh,  
W85-04825 1809 2L

Predictions of Vegetation Change Following Fire in a Great Salt Lake Marsh,  
W85-05608 1810 2H

**UTAH STATE UNIV., LOGAN, DEPT. OF FOREST RESOURCES.**

Erosion from Simulated Rainfall on Mountain Rangeland in Utah,  
W85-03354 1807 2J

**UTAH UNIV., SALT LAKE CITY, DEPT. OF BIOCHEMISTRY.**

Aquatic Parameters and Life History Observations of the Great Basin Spadefoot Toad in Utah,  
W85-06869 1812 2H

**UTAH UNIV., SALT LAKE CITY, DEPT. OF BIOLOGY.**

Intraspecific Competitive Effects on Water Relations, Growth and Reproduction in *Encelia farinosa*,  
W85-02342 1805 2I

Field Water Relations of Sonoran Desert Annuals,  
W85-02817 1806 2I

**UTAH UNIV., SALT LAKE CITY, DEPT. OF CIVIL ENGINEERING.**

One-Dimensional Models for Partially Breached Dams,  
W85-02266 1805 8B

**UTAH WATER RESEARCH LAB., LOGAN.**

Inadvertent Income Redistribution Effects of State Water Development Financing,  
W85-00367 1801 6E

Price Rigidity and Quantity Rationing Rules Under Stochastic Water Supply,  
W85-01339 1803 3D

Reovirus Removal and Inactivation by Slow-Rate Sand Filtration,  
W85-02940 1806 5F

Phosphorus Release from the Sediments of Flaming Gorge Reservoir, Wyoming, U.S.A.,  
W85-05630 1810 2H

Satisfying Instream Flow Needs Under Western Water Rights,  
W85-06030 1811 6E

FY 83 Program Summary Report of Utah Center For Water Resources Research,  
W85-06322 1812 9D

Development of a Comprehensive Upper Colorado River Basin Model for Analyzing Energy Development Impacts,  
W85-06323 1812 4A

Statistical Comparison of a Direct Filtration and a Conventional Water Treatment Facility in the Intermountain Region,  
W85-06324 1812 5F

Effects of Subacute Cadmium Exposure on a Hardwater Mountain Stream Microcosm,  
W85-07123 1812 5C

**UTRECHT RIJKSUNIVERSITEIT (NETHERLANDS). BOTANICAL LAB.**

Interdependence of Growth, Water Relations and Abscisic Acid Level in *Phaseolus vulgaris* During Waterlogging,  
W85-06106 1811 2I

**UTRECHT RIJKSUNIVERSITEIT (NETHERLANDS). DEPT. OF LANDSCAPE ECOLOGY AND NATURE MANAGEMENT.**

Management of Ditches. The Effect of Cleaning of Ditches on the Water Coenoses,  
W85-05682 1810 6G

**UTRECHT RIJKSUNIVERSITEIT (NETHERLANDS). DEPT. OF VETERINARY PHARMACOLOGY, PHARMACY AND TOXICOLOGY.**

Quantitative Structure-Activity Relationships and Toxicity Studies of Mixtures of Chemicals with Anaesthetic Potency: Acute Lethal and Sublethal Toxicity to *Daphnia magna*,  
W85-00882 1802 5C

Quantitative Structure-Activity Relationships and Mixture Toxicity Studies of Chloro- and Alkylanilines at an Acute Lethal Toxicity Level to the Guppy (*Poecilia reticulata*),  
W85-02702 1806 5C

Joint Effects of a Mixture of 14 Chemicals on Mortality and Inhibition of Reproduction of *Daphnia magna*,  
W85-03688 1807 5C

Quantitative Structure-Activity Relationships and Mixture Toxicity of Organic Chemicals in *Photobacterium phosphoreum*: The Microtox Test,  
W85-05809 1810 5C

**UTSUNOMIYA UNIV. (JAPAN). DEPT. OF ENVIRONMENTAL CHEMISTRY.**

Some Properties of Mucilage Polysaccharides Extracted from Sewage Activated Sludge,  
W85-04252 1808 5D

**VALENCIA UNIV. (SPAIN). DEPT. OF MICROBIOLOGY.**

Comparative Study on *Salmonella* Isolation from Sewage-Contaminated Natural Waters,  
W85-01150 1803 5A

R-Plasmid Transfer in *Salmonella* spp. Isolated from Wastewater and Sewage-Contaminated Surface Waters,  
W85-02604 1805 5B

**VALTION ELAINLAAKETIEELLINEEN LAITOS, HELSINKI (FINLAND).**

Occurrence of Faecal Coliforms, Faecal Streptococci and Salmonella in the Waste Water of Three Abattoirs in Finland 1980-1983,  
W85-03681 1807 5A

**VAN KIRK ENGINEERS, LOS ALTOS, CA.**

Water Usage and Wastewater Study for a Specialty Food Processing Company,  
W85-05230 1810 5D

**VANDERBILT UNIV., NASHVILLE, TN. DEPT. OF CHEMISTRY.**

Migration of Pollutants in Groundwater. II. Adsorbable Pollutants and Numerical Dispersion Reduction,  
W85-06290 1812 5B

Hexavalent Chromium Removal in a Foam Flootation Pilot Plant,  
W85-06842 1812 5D

**VANDERBILT UNIV., NASHVILLE, TN. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.**

Kinetics of the Desorption of Ammonia from Water by Diffused Aeration,  
W85-03299 1807 5D

**VANDEX ISOLIERMITTEL G.M.B.H., HAMBURG (GERMANY, F.R.).**

Various Coating Materials for Potable Water Concrete Storage Reservoirs - Experiences in Germany, Switzerland and Austria,  
W85-02000 1804 8G

**VANDINE GEOLOGICAL ENGINEERING SERVICES, VICTORIA (BRITISH COLUMBIA).**

Debris Flows and Debris Torrents in the Southern Canadian Cordillera,  
W85-06044 1811 2J

**VANDKVALITETSINSTITUTET, HOERSHOLM (DENMARK).**

Modeling Heavy Metals Transport in an Arctic Fjord System Polluted from Mine Tailings,  
W85-00267 1801 5B

Interactions between Phytoplankton, Zooplankton, and Fish in the Nutrient Rich Shallow Lake Hjarbaek Fjord, Denmark,  
W85-02564 1805 2H

Biodegradation of 4-Nitrophenol in Standardized Aquatic Degradation Tests,  
W85-02944 1806 5B

**VAPONICS, INC., PLYMOUTH, MA.**

Pharmacopeia Requirements and Water Standards in the United States of America,  
W85-06627 1812 6D

**VEB KALIBETRIEB ZIELITZ (GERMAN D.R.).**

Economical Water Use in the Zielitz Potash Plant (Wirtschaftliche Wassernutzung im VEB Kalibetrieb Zielitz),  
W85-03467 1807 3E

**VEB PROJEKTIERUNG WASSERWIRTSCHAFT, COTTBUS (GERMAN D.R.).**

Efforts Toward a Basic Economic Study and Planning of the Drinking-Water Supply in the Upper Spree Region as a Basis for Capital Investment (Arbeiten zur Grundfondswirtschaftlichen Untersuchung und Planung der Trinkwasserversorgung im Oberen Spreegebiet als Grundlage der Investitionstätigkeit),  
W85-03516 1807 3B

## ORGANIZATIONAL INDEX

### **VEB PROJEKTIERUNG WASSERWIRTSCHAFT, DRESDEN (GERMAN, D.R.).**

**VEB PROJEKTIERUNG  
WASSERWIRTSCHAFT, DRESDEN  
(GERMAN, D.R.).**

Rationalization of the Burkersdorf Drinking-Water-Treatment Facility (Rationalisierung der Trinkwasseraufbereitungsanlage Burkersdorf),  
W85-04324 1808 5F

**VEB PROJEKTIERUNG  
WASSERWIRTSCHAFT, ERFURT (GERMAN,  
D.R.).**

Energy Studies of Wastewater-Treatment Facilities as a Basis for Optimal Energy Use (Energiesstudien von Abwasserbehandlungsanlagen als Grundlage für den optimalen Energieeinsatz),  
W85-01878 1804 5D

Studies on Iron and Manganese Removal in a Groundwater Conductor (Untersuchungen zur Enteisenung und Entmanganung im Grundwasserleiter),  
W85-03527 1807 5F

**VEB PROJEKTIERUNG  
WASSERWIRTSCHAFT, HALLE (GERMAN  
D.R.).**

Reduction of the Use of Materials with the Aid of Science and Technology at the Hydrotechnology and Water-Management-Planning Combine (Senkung des Produktionsverbrauchs mit Hilfe von Wissenschaft und Technik im VEB Kombinat Wassertechnik um Projektierung Wasserwirtschaft),  
W85-01968 1804 5D

Intensification of Wastewater and Sludge Treatment Processes Through Utilization of the Energy Potential of Wastewater (Intensivierung der Abwasser- und Schlammbehandlungsprozesse durch Nutzung des Eigenenergiopotentials der Abwasser),  
W85-01970 1804 5D

**VEB SYNTHESEWERKE, SCHWARZHEIDE  
(GERMAN, D.R.).**

Development of the Schwarzheide Chemical Synthesis Works in the Field of Wastewater and By-product Treatment (Entwicklung des VEB Synthesewerk Schwarzheide auf dem Gebiet der Abwasser- und Abproduktbehandlung),  
W85-01881 1804 5D

**VEB WASSERVERSORGUNG UND  
ABWASSERBEHANDLUNG, ERFURT  
(GERMAN, D.R.).**

Friedrichroda Wastewater Treatment Facility - Results of an Experiment (Klaranlage Friedrichroda - Ergebnisse eines Experiments),  
W85-01884 1804 5D

**VEB WASSERVERSORGUNG UND  
ABWASSERBEHANDLUNG, BERLIN  
(GERMAN D.R.).**

Problems in Wastewater Sludge Treatment - Practical Experience in Sewage-Sludge Thickenning (Probleme der Abwasserschlammbehandlung Betriebserfahrungen mit der Eindickung von Frischschlamm),  
W85-03459 1807 5D

**VEB WASSERVERSORGUNG UND  
ABWASSERBEHANDLUNG, MAGDEBURG  
(GERMAN, D.R.).**

Execution of Socialist Business Management in the Continuation of the Colbitz Movement (Die Durchsetzung der sozialistischen Betriebswirtschaft in Fortführung der Colbitzer Bewegung),  
W85-01876 1804 5F

**VEB WASSERVERSORGUNG UND  
ABWASSERBEHANDLUNG,  
NEUBRANDENBURG (GERMAN D.R.).**

Observations on and Results of Rational Energy Use at the Neubrandenburg Water and Wastewater Treatment Facilities (Erfahrungen und Ergebnisse bei der Rationalen Energieanwendung im VEB Wasserversorgung und Abwasserbehandlung Neubrandenburg),  
W85-03514 1807 5D

**VEB WASSERVERSORGUNG UND  
ABWASSERBEHANDLUNG, ROSTOCK  
(GERMAN, D.R.).**

Construction of Rationalization Equipment at the Rostock Water-Supply and Wastewater-treatment Facility (Rationalisierungsmittelbau im VEB Wasserversorgung und Abwasserbehandlung Rostock),  
W85-01877 1804 5F

**VEB ZELLSTOFF- UND PAPIERFABRIK,  
ROSENTHAL (GERMAN D.R.).**

Improved Operational Control of Sedimentation Facilities Through the Use of Fiberoptic Sensors (Verbesserte Betriebskontrolle von Sedimentationsanlagen durch Nutzung faseroptischer Sensoren),  
W85-01882 1804 5D

**VEREINIGTE ELEKTRIZITAETSWERKE  
WESTFALEN A.G., DORTMUND (GERMANY,  
F.R.).**

Anions in Water of Energy Generating Plants. Importance and Analysis (Review) (Anionen in Wassern von Energieerzeugungsanlagen - Bedeutung und Analyse (Übersichtsbericht)),  
W85-06754 1812 5A

**VERMONT LAW SCHOOL, SOUTH  
ROYALTON. ENVIRONMENTAL LAW  
CENTER.**

Acid Precipitation and Scientific Uncertainty Problems in Probability,  
W85-01665 1804 5C

Economics of Acid Rain: An Invisible Hand of Control,  
W85-01666 1804 5C

Tort Recovery of Acid Rain Damages in the United States - Observations on Plaintiff's Prima Facie Case,  
W85-01667 1804 6E

Acid Rain and Federal Common Law,  
W85-01668 1804 6E

International Cooperation and Acid Rain Pollution: Establishing the Framework for Control,  
W85-01670 1804 6E

**VERMONT STATE DEPT. OF HEALTH,  
BURLINGTON. DIV. OF ENVIRONMENTAL  
HEALTH.**

Environmental Health Investigation of Copper Intoxication from a Public Water Supply,  
W85-05913 1811 5F

**VERMONT UNIV., BURLINGTON. DEPT. OF  
CIVIL AND MECHANICAL ENGINEERING.**

Microbial Contamination of Potable Water in Distribution Systems,  
W85-01796 1804 5F

Finite Element/Finite Difference Wave Model for Depth Varying Nearly Horizontal Flow,  
W85-03474 1807 2H

**VERMONT UNIV., BURLINGTON. DEPT. OF  
MICROBIOLOGY AND BIOCHEMISTRY.**

Assay for Biologically Available Phosphorus Using Proteolytic Aeromonas hydrophila,  
W85-02285 1805 5A

**VESI-EKO KV. KUOPIO (FINLAND).**

Lake Management and Restoration, W85-02387 1805 5G

**VETERANS ADMINISTRATION MEDICAL  
CENTER, DENVER, CO.**

Role of Stagnation and Obstruction of Water Flow in Isolation of Legionella Pneumophila from Hospital Plumbing,  
W85-03432 1807 5B

**VETERANS ADMINISTRATION MEDICAL  
CENTER, PITTSBURGH, PA.**

Ecology of Legionella pneumophila within Water Distribution Systems, W85-04264 1808 5F

**VETERINARY HYGIENE RESEARCH  
STATION, GDANSK (POLAND).**

Chlorinated Hydrocarbons in Fish-Eating Birds Wintering in the Gdansk Bay, 1981-82 and 1982-83,  
W85-02762 1806 5B

**VIAK CONSULTANTS, LINKOEPING  
(SWEDEN).**

Review of Rainfall Data Application for Design and Analysis,  
W85-01677 1804 2B

Rainfall Data For the Design of Detention Basins,  
W85-01695 1804 2E

**VICTORIA DEPT. OF AGRICULTURE,  
TATURA (AUSTRALIA). IRRIGATION  
RESEARCH INST.**

Effects of Regulated Water Deficits on Pear Tree Growth, Flowering, Fruit Growth, and Yield,  
W85-06204 1812 3F

**VICTORIA MINISTRY FOR  
CONSERVATION, QUEENSLIFF  
(AUSTRALIA). MARINE SCIENCE LAB.**

Uptake of Cadmium by the Seagrass Heterozosteria tasmanica from Corio Bay and Western Port, Victoria,  
W85-00784 1802 5B

Benthic Communities of the Gippsland Lakes, Victoria,  
W85-00785 1802 2L

**VICTORIA MINISTRY FOR  
CONSERVATION, QUEENSLIFF  
(AUSTRALIA). MARINE SCIENCE LABS.**

Light Climate in the Gippsland Lakes, Victoria,  
W85-03495 1807 2H

Suspended Sediments and Nutrients in Water Ebbing from Seagrass-Covered and Denuded Tidal Mudflats in a Southern Australian Embayment,  
W85-04856 1809 2L

**VICTORIA STATE RIVERS AND WATER  
SUPPLY COMMISSION, TATURA  
(AUSTRALIA).**

Simplified Graphical Solution of the Theis Equation,  
W85-02465 1805 4B

**VICTORIA UNIV. (BRITISH COLUMBIA).  
DEPT. OF BIOCHEMISTRY AND  
MICROBIOLOGY.**

Effects of Heavy Metal Contamination of the Aquatic Biota of Buttle Lake and the Campbell River Drainage (Canada),  
W85-07160 1812 5C

**VICTORIA UNIV. (BRITISH COLUMBIA).  
DEPT. OF BIOLOGY.**

Marine Disposal of Mine Tailing,  
W85-02324 1805 5C

## ORGANIZATIONAL INDEX

### VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG, DEPT. OF CIVIL

Periphyton Community Changes Along a Heavy Metals Gradient in a Long Narrow Lake, W85-04860	1809 5C	Effects of Toxic Chemicals on Macrophage Phagocytosis in Two Estuarine Fishes, W85-05891	1811 5C	VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG, DEPT. OF BIOLOGY, Comparative Water Relations of Phreatophytes in the Sonoran Desert of California, W85-00266	1801 2I
Lake Algal Populations and Physico-Chemical Changes After 14 Years Input of Metallic Mining Wastes, W85-06221	1812 5C	Effects of Contaminated Sediments and Sediment-Exposed Effluent Water on an Estuarine Fish: Acute Toxicity, W85-05892	1811 5C	Structural, Functional, and Recovery Responses of Stream Invertebrates to Fly Ash Effluent, W85-01491	1803 5C
<b>VICTORIA UNIV. OF MANCHESTER (ENGLAND). SCHOOL OF BIOLOGICAL SCIENCES.</b>		Examination of Tidal Flats, Vol. 2: Identified Values Review. W85-06895	1812 2L	Seston Microbial Activity in a River-Reservoir System, W85-02249	1805 2H
Mass Movement and Erosion of a Southern Pennine Blanket Peat, W85-06368	1812 2J	<b>VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG.</b>		Interactions of Temperature and Sublethal Environmental Copper Exposure on the Energy Metabolism of Bluegill, <i>Lepomis macrochirus</i> Rainesque, W85-03003	1806 5C
<b>VICTORIA UNIV., WELLINGTON (NEW ZEALAND). DEPT. OF GEOLOGY.</b>		Flux-Averaged and Volume-Averaged Concentrations in Continuum Approaches to Solute Transport, W85-02153	1804 2F	Shredder Abundance and Leaf Breakdown in an Appalachian Mountain Stream, W85-04899	1809 2H
Drainage Initiation by Subsurface Flow in South Taranaki, New Zealand, W85-06520	1812 2E	Systems Approach for Agricultural Land Management and Water Quality Control, W85-03390	1807 2J	Leaf Litter Processing in a Virginia Reservoir: The Role of Temperature and Fish, W85-05632	1810 2H
<b>VIENNA UNIV. (AUSTRIA). LIMNOLOGISCHE LEHRKANZEL.</b>		Hydrologic and Water Quality Models for Agriculture and Forestry. W85-05338	1810 2A	Seston Transport in Streams at Coweeta Hydrologic Laboratory, North Carolina, U.S.A., W85-05671	1810 2J
Phosphate Adsorption Kinetics of Resuspended Sediments in a Shallow Lake, Neusiedlersee, Austria, W85-02079	1804 2H	Effects of Anaerobically Digested Poultry Manure on Soil Phosphorus Adsorption and Extractability, W85-06622	1812 5D	Alterations in Tissue Water Balance and Adenylates of Bluegill ( <i>Lepomis macrochirus</i> ) Exposed to Copper, W85-05898	1811 5C
Observations on Phosphorus Dynamics and Orthophosphate Turnover in a Tropical Lake - Parakrama Samudra, Sri Lanka, W85-05642	1810 2H	<b>VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. CENTER FOR ENVIRONMENTAL STUDIES.</b>		Evaluating the Options for Water Quality Management, W85-06232	1812 5G
<b>VIRGINIA BEACH PUBLIC WORKS HIGHWAY DIV., VA.</b>		Maintenance of Structural Integrity in Freshwater Protozoan Communities Under Stress, W85-01012	1802 5C	<b>VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF CIVIL ENGINEERING.</b>	
New Approach to Canal and Waterway Maintenance, W85-03274	1807 4A	Coal Ash Basin Effects (Particulates, Metals, Acidic pH) Upon Aquatic Biota: An Eight-Year Evaluation, W85-02980	1806 5C	Waste Application to Land: The Land-Use Issue, W85-01564	1803 5D
<b>VIRGINIA COOPERATIVE FISHERY UNIT, BLACKSBURG.</b>		Protozoan Colonization Rates and Trophic Status of Some Freshwater Wetland Lakes, W85-04657	1809 2H	Long-Range Reservoir Outflow Temperature Planning, W85-01565	1803 6G
Generalized Model for Predicting Spawning Success of Fish in Reservoirs with Fluctuating Water Levels, W85-05878	1811 6G	Ionoregulatory and Toxicological Responses of Stonefly Nymphs (Plecoptera) to Acidic and Alkaline pH, W85-05108	1810 5C	Effects of Urbanization on Frequencies of Overflows and Pollutant Loadings from Storm Sewer Overflows: A Derived Distribution Approach, W85-02152	1804 5B
<b>VIRGINIA COOPERATIVE WILDLIFE RESEARCH UNIT, BLACKSBURG.</b>		Long-Term Patterns of Protozoan Colonization in Douglas Lake, Michigan, W85-06134	1811 2H	Virginia's Water Law: Resolving the Interjurisdictional Transfer Issue, W85-02183	1805 6D
Biological and Economic Impact of Stream Alteration in the Virginia Piedmont, W85-06956	1812 6G	<b>VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF AGRICULTURAL ECONOMICS.</b>		Stabilization of Sludge from an Oxidation Ditch, W85-02575	1805 5E
Evaluation of Elutriate Test Parameters for an Organic Hydrophobic Pollutant, Kepone, W85-01319	1803 5A	Opportunity Costs of Preserving Coastal Wetlands: A Case Study of a Recreational Housing Development, W85-04754	1809 6B	Nitrite Build-Up in Activated Sludge Resulting from Temperature Effects, W85-02585	1805 5D
<b>VIRGINIA INST. OF MARINE SCIENCE, GLOUCESTER POINT.</b>		Evaluation of Alternative Policies for Controlling Agricultural Nonpoint Source Pollution, W85-04989	1810 6B	Nitrite Build-Up in Activated Sludge Resulting from Combined Temperature and Toxicity Effects, W85-02586	1805 5D
Acute Toxicity of Kepone to Selected Freshwater Fishes, W85-01846	1804 5C	<b>VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF AGRICULTURAL ENGINEERING.</b>		Inorganic Carbon Limited Growth Kinetics of Some Freshwater Algae, W85-04977	1810 2H
Kepone Concentration in Juvenile Anadromous Fishes, W85-01847	1804 5B	Livestock Lagoon Systems for Disposal of Pesticide Wastes, W85-03381	1807 5D	Metal Distribution and Contamination in Sediments, W85-06019	1811 5B
Effects of the Herbicide Atrazine on Adenine Nucleotide Levels in <i>Zostera marina</i> L. (eelgrass), W85-01888	1804 5C	<b>VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF AGRICULTURE.</b>		Finite Element Analyses of Lock and Dam 26 Cofferdam, W85-06025	1811 8A
Uptake of Kepone from Sediment Suspensions and Subsequent Loss by the Oyster <i>Crassostrea virginica</i> , W85-01897	1804 5B	Comparison of Field- and Laboratory-Measured and Predicted Hydraulic Properties of a Soil with Macropores, W85-04617	1809 2G	<b>ORGANIZATIONAL INDEX</b>	
Uptake and Clearance Rates for Kepone in Two Marine Fish Species, W85-04364	1808 5C			<b>OR-133</b>	
Distribution and Abundance of Submerged Aquatic Vegetation in Chesapeake Bay: An Historical Perspective, W85-05709	1810 5C				

## ORGANIZATIONAL INDEX

### VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF CIVIL

Probabilistic Modeling of Soil Loss from Surface Mined Regions, W85-06090	1811 2J	Composition of Precipitation in Remote Areas of the World, W85-00514	1802 2K	Wastewater Purification as Related to the Study of a River System (Abwasserreinigung in Verbindung mit der Untersuchung eines Flusssystems), W85-01885	1804 5D
Application of a Cell Model to the Bellebeek Watershed, W85-06638	1812 2E	Subsurface Stormflow: An Analysis of Response Times, W85-00695	1802 2F	Sludge Treatment at the Wastewater-Treatment Facility in the City of Pecs (Schlammbehandlung in der Abwasserreinigungsanlage der Stadt Pecs), W85-03463	1807 5D
<b>VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF ENTOMOLOGY.</b>		Indirect Effects of Chlorinated Wastewater on Bacteriovorous Protozoa, W85-00908	1802 5D		
Colonization and Succession of Benthic Macroinvertebrates in a New Reservoir, W85-00425	1801 6G	Statistical Exploration of the Relationships of Soil Moisture Characteristics to the Physical Properties of Soils, W85-01341	1803 2G	Energy-Saving Control of the Aerobic Stage by Means of a Microprocessor (Energiesparende Steuerung der Aerobstufe durch Mikroprozessor), W85-03464	1807 5D
Quantity and Quality of Seston in an Impounded and a Free-Fowing River in Virginia, U.S.A., W85-06791	1812 2H	Dissolved Oxygen Dynamics of a Stream: Model Discrimination and Estimation of Parameter Variability Using an Extended Kalman Filter, W85-01428	1803 2H	Proposal to Construct a Coordinating Matrix for Comparative Hydrology, W85-05007	1810 7A
<b>VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF FISHERIES AND WILDLIFE SCIENCES.</b>		Role of Tall and Medium Spartina alterniflora Zones in the Processing of Nutrients in Tidal Water, W85-02287	1805 2H	<b>VOLCANI INST. OF AGRICULTURAL RESEARCH, BET-DAGAN (ISRAEL). INST. OF SOIL AND WATER.</b>	
Toxicity of the Herbicides Diquat and Endothall to Goldfish, W85-00909	1802 5C	Use of Oligohaline Marshes by Fishes and Macrofaunal Crustaceans in North Carolina, W85-02995	1806 2L	Nonuniform Sprinkler Irrigation and Crop Yield, W85-05924	1811 3F
Microhabitat Preferences of Benthic Fauna in a Woodland Stream, W85-00984	1802 2H	Sufficient Conditions for River Meandering: A Simulation Approach, W85-03566	1807 2E	<b>VOLGA INST. OF HYDRAULIC ENGINEERING AND MELIORATION, ENGELS (USSR).</b>	
Heavy Metals in Tissues of Waterfowl from the Chesapeake Bay, USA, W85-01448	1803 5C	Sulfate Reduction in Freshwater Sediments Receiving Acid Mine Drainage, W85-04263	1808 5B	Salt Removal from Soils of the Low Syrt Plain, W85-06749	1812 2G
Heavy Metals in Aquatic Plants, Clams, and Sediments from the Chesapeake Bay, U.S.A. Implications for Waterfowl, W85-06549	1812 5B	Organic Acidity in Precipitation of North America, W85-04499	1809 5B	<b>VOLTA RIVER AUTHORITY, ACCRA (GHANA).</b>	
<b>VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. WATER RESOURCES RESEARCH CENTER.</b>		Composition of Precipitation on Amsterdam Island, Indian Ocean, W85-04503	1809 5B	Health Impact of the Kpong Dam in Ghana, W85-03323	1807 6G
State Water Law: Legal Alternatives and Consequences, W85-06327	1812 6E	Modeling the Effects of Acid Deposition: Assessment of a Lumped Parameter Model of Soil Water and Streamwater Chemistry, W85-04792	1809 5C	<b>VRIJE UNIV., AMSTERDAM (NETHERLANDS). BIOLOGICAL LAB.</b>	
<b>VIRGINIA STATE DEPT. OF HEALTH, RICHMOND.</b>		Gran's Titrations: Inherent Errors in Measuring the Acidity of Precipitation, W85-05774	1810 5A	Effects of Phosphorus and Nitrogen Enrichment on the Yield of Some Strains of <i>Stigeoclonium</i> , <i>Kutz.</i> ( <i>Chlorophyceae</i> ), W85-04898	1809 5A
Percolation Tests, Soil Texture, and Saturated Hydraulic Conductivity in Lacustrine Soils in North Dakota, W85-06717	1812 2G	Acid Precipitation: Natural Versus Anthropogenic Components, W85-06060	1811 2K	<b>VRIJE UNIV., AMSTERDAM (NETHERLANDS). DEPT. OF ANALYTICAL CHEMISTRY.</b>	
<b>VIRGINIA STATE WATER CONTROL BOARD, RICHMOND. DIV. OF ECOLOGICAL STUDIES.</b>		VISVA-BHARATI UNIV., SANTINIKETAN (INDIA). DEPT. OF CHEMISTRY.		Industrial Wastewater Analysis by Liquid Chromatography with Precolumn Technology and Diode-Array Detection, W85-06257	1812 5A
Annual Cycle of Kepone Residue and Lipid Content of the Estuarine Clam, <i>Rangia cuneata</i> , W85-01844	1804 5C	Studies of Toxic Effects of Hg(II) on <i>Pistia stratiotes</i> , W85-06372	1812 5C	<b>VRIJE UNIV., AMSTERDAM (NETHERLANDS). DEPT. OF HYDROGEOLGY AND GEOGRAPHICAL HYDROLOGY.</b>	
<b>VIRGINIA UNIV., CHARLOTTESVILLE. DEPT. OF CHEMISTRY.</b>		VISVESVARAYA REGIONAL COLL. OF ENGINEERING, NAGPUR (INDIA). DEPT. OF CIVIL ENGINEERING.		Systematic Problem-Oriented Approach to Hydrological Data Regionalisation, W85-02459	1805 2A
Scheme for the Direct Analysis of Organics in the Environment by Tandem Mass Spectrometry, W85-04656	1809 5A	Optimal Expansion of Water Distribution Systems, W85-06020	1811 5F	Loosdrecht Lakes Restoration Project: Hydrology and Physico-Chemical Characteristics of the Lakes, W85-04545	1809 2H
<b>VIRGINIA UNIV., CHARLOTTESVILLE. DEPT. OF CIVIL ENGINEERING.</b>		VITERBO COLL., LA CROSSE, WI. DEPT. OF BIOLOGY.		<b>VRIJE UNIV., AMSTERDAM (NETHERLANDS). INST. OF EARTH SCIENCES.</b>	
Understanding Simplified Lake Acidification Models, W85-02822	1806 5B	Occurrence of Polychlorinated Biphenyls (PCBs) in Adult Mayflies ( <i>Hexagenia bilineata</i> ) of the Upper Mississippi River, W85-04316	1808 5B	Steady Groundwater Flow in Leaky Multiple-Aquifer Systems, W85-01617	1803 2F
Two-Dimensional Mass Transport in Estuaries, W85-03006	1806 2L	VIZGAZDALKODASI TUDOMANYOS KUTATO INTEZET, BUDAPEST (HUNGARY).		<b>VRIJE UNIV., AMSTERDAM (NETHERLANDS). INST. VOOR AARDWETENSCHAPPEN.</b>	
<b>VIRGINIA UNIV., CHARLOTTESVILLE. DEPT. OF ENVIRONMENTAL SCIENCES.</b>		Water Quality Standards as a Basis of an Economic Incentive System, W85-01390	1803 6F	General Purpose Microcomputer Aquifer Test Evaluation Technique, W85-05847	1810 2F
Identification of Photosynthesis-Light Models for Aquatic Systems; I. Theory and Simulations, W85-00268	1801 2H			<b>VRIJE UNIV., BRUSSELS (BELGIUM). CENTER FOR STATISTICS AND OPERATIONS RESEARCH.</b>	
Identification of Photosynthesis-Light Models for Aquatic Systems; II. Application to a Macrophyte Dominated Stream, W85-00269	1801 2H			Controllability Conditions for Reservoir Flood Control Systems with Applications, W85-03549	1807 4A

## **ORGANIZATIONAL INDEX**

### **WARSAW UNIV. (POLAND). INST. OF ENVIRONMENTAL PROTECTION ENGINEERING.**

<b>VRIJE UNIV., BRUSSELS (BELGIUM). LAB. VOOR ALGEMENE PLANTKUNDE EN NATUURBEEHIER.</b>			
Some Limnological Characteristics of a Temperate Forest Pond, W85-05651	1810	2H	
<b>VSEROSSIJSKII NAUCHNO- ISSLEDOVATEL'SKII INST. PRUDOVOGO RYBNOGO KHOZYAISTVA, KONAKOV (USSR). UPPER VOLGA DEPT.</b>			
Morphometric Features of the Roach, <i>Rutilus rutilus</i> , of Ivan'kovskoye Reservoir in the Zone Affected by Warm Waste Waters, W85-02846	1806	5C	
<b>VSESOYUZNYI GIDROPROEKTNO- IZYSKATEL'SKII I NAUCHNO- ISSLEDOVATEL'SKII INST. 'GIDROPROEKT', MOSCOW (USSR).</b>			
Multipurpose Use and Protection of Water Resources in Power Complexes Including Nuclear Power Stations, W85-04090	1808	6G	
<b>VSESOYUZNYI NAUCHNO- ISSLEDOVATEL'SKII INST. GIDROTEKHNIKI I MELIORATSII, MOSCOW (USSR).</b>			
Evaporation from Forests in Cloud Enhances the Effects of Acid Deposition, W85-03535	1807	5B	
<b>VSESOYUZNYI NAUCHNO- ISSLEDOVATEL'SKII INST. VODOSNABZHENIYA, KANALIZATSII, GIDROTEKHICHESKIH SOORZHENII I INZHEHERNOI GIDROGEOLOGII, MOSCOW (USSR).</b>			
Automation of the Measurement of Chlorides in Natural and Wastewaters (Die Automatisierung der Messung von Chloriden in Naturlichen Wassern und in Abwassern), W85-03534	1807	7B	
Using Poor Quality Rock Materials for Dam Building, W85-04029	1808	8E	
USSR Runoff Treatment, W85-05835	1810	5D	
<b>VSESOYUZNYI ZAOCHNYI INST. PISHCHEVOI PROMYSHLENNOSTI, MOSCOW (USSR).</b>			
Effect of Harmful Factors on the Posttraumatic Mitotic Activity in the Lens Epithelium of Rainbow Trout, <i>Salmo gairdneri</i> (Salmonidae), W85-05751	1810	5C	
<b>VTN CONSOLIDATED, INC., IRVINE, CA. Langsee: A Geochemical History of Meromixis,</b> W85-01013	1802	2H	
<b>VYSOKA SKOLA CHEMICKO- TECHNOLOGICKA, PRAHA (CZECHOSLOVAKIA).</b>			
Bead Cellulose Anion Exchangers for Ultra Pure Water, W85-03725	1807	5F	
Chlorination of Humic Acids and Chloroform Production, W85-06648	1812	5F	
Optimization of the Activated Sludge Process Through Minimizing the Volume of Activated Sludge and Final Clarification Tanks (Optimierung des Belebungsverfahrens durch Minimierung des Volumens von Belebungs- und Nachklärbecken), W85-06656	1812	5D	
<b>VYSOKA SKOLA CHEMICKO- TECHNOLOGICKA, PRAHA (CZECHOSLOVAKIA). INST. OF WATER TECHNOLOGY AND ENVIRONMENTAL PROTECTION.</b>			
Quantitative Estimation in COD Units of Refractory Organic Compounds Produced by Activated Sludge Microorganisms, W85-04486	1809	5D	
Short-Term Uptake of Heavy Metals by Periphyton Algae, W85-04721	1809	5B	
Inhibitory Effect of Refractory Organic Compounds Produced by Activated Sludge Micro-Organisms on Microbial Activity and Flocculation, W85-04974	1810	5D	
Forms of Occurrence of Fluorine in Drinking Water, W85-06218	1812	5F	
<b>VYSOKA SKOLA ZEMEDELSKA, BRNO (CZECHOSLOVAKIA). INST. OF FOREST ECOLOGY.</b>			
Amounts of Water Required by Important Ecosystems of a Rural Landscape, W85-00625	1802	2D	
Xylem Water Flow in a Crack Willow Tree ( <i>Salix fragilis</i> L.) in Relation to Diurnal Changes of Environment, W85-02900	1806	2I	
<b>VYSOKE UCENI TECHNICKE, GOTTLAWDOV (CZECHOSLOVAKIA). TECHNOLOGICKA FAKULTA.</b>			
Possibility of Treatment of Wastewater from Artificial Leather Production with the Help of Algae (Möglichkeiten der Nachreinigung von Abwassern aus der Kunstlederproduktion mit Hilfe von Algen), W85-06263	1812	5D	
<b>VYZKUMNY USTAV VODOHSPODARSKY, PRAGUE (CZECHOSLOVAKIA).</b>			
Trends in the Intensification of Sludge Management in Wastewater-Treatment Facilities of the CSSR (Trends bei der Intensivierung der Schlammwirtschaft in Klaranlagen der CSSR), W85-03462	1807	5D	
Spectral Analysis of the Automatically Recorded Data from Slapy Reservoir, Czechoslovakia, W85-06881	1812	2H	
<b>WAHNBACHTALSVERBAND, SIEGBURG (GERMANY, F.R.).</b>			
New Developments for Emergency Water Supply under the Law on Safeguarding Water Supply (Neue Entwicklungen für die Trinkwasser-Notversorgung nach dem Wassersicherstellungsgezetz), W85-03270	1807	5F	
Investigations on the Influence of Algogenic Organic Matter on Flocculation and Flocseparation (Untersuchungen zur Beeinflussung der Flockung und Flockenabtrennung durch algengesättigte organische Substanzen), W85-05451	1810	5F	
Reaction Mechanisms Involved in the Influence of Algogenic Organic Matter on Flocculation, W85-05452	1810	5F	
<b>WAIKATO UNIV., HAMILTON (NEW ZEALAND). DEPT. OF EARTH SCIENCES.</b>			
Note on the Form of Distributions of Precipitation Totals, W85-02466	1805	2B	
Note on Estimating the Unit Hydrograph (Effective Rainfall Unknown), W85-02496	1805	2A	
<b>WAITE AGRICULTURAL RESEARCH INST., GLENN OSMOND (AUSTRALIA).</b>			
Studies on the Nitrogen and Water Relations of Wheat, II. Effects of Varying Nitrogen and Water Supply on Growth and Grain Yield, W85-05167	1810	2I	
<b>WAITE AGRICULTURAL RESEARCH INST., GLENN OSMOND (AUSTRALIA). DEPT. OF PLANT PHYSIOLOGY.</b>			
Proline Accumulation in the Grains, Floral Organs and Flag Leaves of Wheat and Barley in Response to Variations in Water and Nitrogen Supply, W85-05919	1811	2I	
<b>WARMINSTER MUNICIPAL AUTHORITY WASTEWATER TREATMENT PLANT, PA.</b>			
Primary Effluent Filtration. The Warminster Experience, W85-05487	1810	5D	
<b>WARREN SPRING LAB., STEVENAGE (ENGLAND).</b>			
Rapid Numerical Method for Horizontal Fluid Flow in Unsaturated Soils, W85-01619	1803	2H	
<b>WARSAW UNIV. (POLAND). DEPT. OF ENVIRONMENTAL MICROBIOLOGY.</b>			
Factors Affecting Alkaline Phosphatase Activity in a Lake (Short-Terms Experiments), W85-00226	1801	2H	
Removal of Nitrogen from Industrial Wastewaters with the Use of Algal Rotating Disks and Denitrification Packed Bed Reactor, W85-02425	1805	5D	
Phosphatases and Their Role in Organic Phosphorus Transformation in Natural Waters. A Review, W85-04613	1809	2K	
Longterm Studies on Alkaline Phosphatase Activity (APA) in a Lake with Fish-Aquaculture in Relation to Lake Eutrophication and Phosphorus Cycle, W85-05726	1810	5C	
<b>WARSAW UNIV. (POLAND). DEPT. OF HYDROBIOLOGY.</b>			
Long-Term Changes of the Submerged Macrophytes in Eutrophic Lake Mikolajskie (North Poland), W85-02483	1805	5C	
<b>WARSAW UNIV. (POLAND). DEPT. OF PHYTOGEOGRAPHY.</b>			
Typhetum angustifoliae and Typhetum latifoliae as Indicators of Various Habitats, W85-04614	1809	2L	
<b>WARSAW UNIV. (POLAND). INST. OF ENVIRONMENTAL PROTECTION ENGINEERING.</b>			
Interaction Between Humic Substances and Some Trace Metals in Coagulation, W85-01581	1803	5F	

## ORGANIZATIONAL INDEX

### WARSAW UNIV. (POLAND). INST. OF ENVIRONMENTAL PROTECTION ENGINEERING.

Adsorption in Wastewater Treatment, W85-01582	1803 5D	Effect of Reservoir Induced Circulation on the Water Quality of Recreational Freshwater Embayments, W85-06317	1812 5B	Short-Term, Single, Multiple-Purpose Reservoir Operation: Importance of Loss Functions and Forecast Errors, W85-02658	1805 4A
<b>WARSAW UNIV. (POLAND). ZAKLAD FITOSOCJOLOGI I ECOLOGII ROSLIN.</b>		<b>WASHINGTON STATE UNIV., PULLMAN. DEPT. OF FORESTRY AND RANGE MANAGEMENT.</b>		<b>Consolidation of a Stream Quality Monitoring Network,</b> W85-02973	1806 7A
Effect of Anthropogenic Changes of Water Conditions on the Vegetation in the Forest Re- serve Las Bielanski in Warsaw (Wpływ antropo- gennych zmian stosunków wodnych na roslin- ność rezerwatu Las Bielanski w Warszawie), W85-04610	1809 4C	Water Relations of <i>Quercus palustris</i> : Field Measurements on an Experimentally Flooded Stand, W85-02814	1806 2I	<b>Explicit Finite Difference Model for Unconfined Aquifers,</b> W85-03152	1806 2F
<b>WASHINGTON STATE UNIV., PULLMAN. COLL. OF AGRICULTURE.</b>		<b>WASHINGTON STATE UNIV., PULLMAN. NUCLEAR RADIATION CENTER.</b>		<b>Biomanipulation Experiment in Green Lake, Se- attle, Washington,</b> W85-04671	1809 5G
Trout Farming in Washington, W85-05337	1810 8I	Organic and Inorganic Mercury Species in the Ft. Lewis Solvent Refined Coal Pilot Plant Water Treatment Process, W85-01798	1804 5D	<b>Overview of On-Site Wastewater Treatment and Disposal,</b> W85-05196	1810 5D
<b>WASHINGTON STATE UNIV., PULLMAN. COLL. OF AGRICULTURE RESEARCH CENTER.</b>		<b>WASHINGTON SUBURBAN SANITARY COMMISSION, HYATTSVILLE, MD. INFILTRATION AND INFLOW EVALUATION AND CONTROL DIV.</b>		<b>Septic Tank Design,</b> W85-05202	1810 5D
Elements Associated with the Cadmium Phase in a Harbor Sediment as Determined with the Electron Beam Microprobe, W85-01279	1803 5B	Recent Observations and New Developments in the Calibration of Open Channel Wastewater Monitors, W85-03871	1808 7B	<b>Ongoing and Recent on On-Site Treatment and Disposal Methods in the U.S.A.,</b> W85-05222	1810 5D
<b>WASHINGTON STATE UNIV., PULLMAN. COLL. OF PHARMACY.</b>		<b>WASHINGTON UNIV., SEATTLE.</b> Model for Flow in Meandering Streams, W85-02671	1805 2E	<b>Effects of Instream Flow Requirements on Water Supply Reliability,</b> W85-06498	1812 6D
Pharmacokinetic Model for the Uptake and Dis- position of Di-2-Ethylhexyl Phthalate in Sheeps- head Minnow Cyprinodon variegatus, W85-02377	1805 5C	<b>WASHINGTON UNIV., SEATTLE. COLL. OF FOREST RESOURCES.</b>		<b>Studies of Anaerobic Treatment of Sulfite Proc- ess Wastes,</b> W85-07008	1812 5D
<b>WASHINGTON STATE UNIV., PULLMAN. DEPT. OF AGRICULTURAL ECONOMICS.</b>		Pressure Transducer for Determining Atmo- spheric Pressure and Evapotranspiration with a Hydraulic Weighing Lysimeter, W85-01069	1802 7B	<b>Biologically Enhanced Oxygen Transfer in a Fixed-Film System,</b> W85-07042	1812 5D
Pheasant ( <i>Phasianus colchicus</i> ) Habitat Suitabil- ity Model, W85-00062	1801 6G	Rapid BOD Measurement for Municipal Wastewater Samples using a Biofilm Electrode, W85-01739	1804 5D	<b>WASHINGTON UNIV., SEATTLE. DEPT. OF ECONOMICS.</b>	
Breeding Mallard ( <i>Anas platyrhynchos</i> ) Habitat Suitability Model, W85-01792	1804 6G	<b>WASHINGTON UNIV., SEATTLE. COLL. OF OCEAN AND FISHERY SCIENCES.</b>		Pollution Control by Effluent Charges: It Works in the Federal Republic of Germany, Why Not in the U.S., W85-06534	1812 5G
Managing River Systems: Centralization Versus Decentralization, W85-06536	1812 4A	Nutrient Addition Experiments in Lago Jacaretinga, Central Amazon, Brazil: 2. The Effect of Humic and Fulvic Acids, W85-01018	1802 2H	<b>WASHINGTON UNIV., SEATTLE. DEPT. OF ENVIRONMENTAL HEALTH.</b>	
<b>WASHINGTON STATE UNIV., PULLMAN. DEPT. OF AGRICULTURAL ENGINEERING.</b>		<b>WASHINGTON UNIV., SEATTLE. DEPT. OF BOTANY.</b>		Use of Quantitative Analysis of Urine to Assess Exposure to Asbestos Fibers in Drinking Water in the Puget Sound Region, W85-02712	1806 5A
Performance of Low Pressure Center Pivot Sys- tems, W85-06083	1811 3F	Phenology and Water Relations of Three Plant Life Forms in a Dry Tree-Line Meadow, W85-01892	1804 2I	<b>WASHINGTON UNIV., SEATTLE. DEPT. OF GEOLOGICAL SCIENCES.</b>	
Predicting Sediment Deposition Patterns in Pipes with Diminishing Flow, W85-06084	1811 3F	<b>WASHINGTON UNIV., SEATTLE. DEPT. OF CHEMICAL ENGINEERING.</b>		Sediment Production From Forest Road Sur- faces, W85-03576	1807 2J
<b>WASHINGTON STATE UNIV., PULLMAN. DEPT. OF AGRONOMY AND SOILS.</b>		Removal of Organics from Water in an Aeration Basin; A Mathematical Model, W85-06229	1812 5F	<b>WASHINGTON UNIV., SEATTLE. DEPT. OF MICROBIOLOGY.</b>	
Infiltration Rate of Slot Mulches: Measurement and Numerical Simulation, W85-02868	1806 2G	<b>WASHINGTON UNIV., SEATTLE. DEPT. OF CIVIL ENGINEERING.</b>		Seasonal Study of Methane Oxidation in Lake Washington, W85-02134	1804 2H
Effects of Pump Selection and Terrain on Center Pivot Performance, W85-03364	1807 3F	Cyclic Storage: A Preliminary Assessment, W85-00311	1801 4B	<b>WASHINGTON UNIV., SEATTLE. DEPT. OF ZOOLOGY.</b>	
<b>WASHINGTON STATE UNIV., PULLMAN. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.</b>		Limitations on Seasonal Snowmelt Forecast Accu- racy, W85-01563	1803 2C	Importance of Sediment in the Grazing Ecology and Size Class Interactions of an Armored Cat- fish, <i>Ancistrus spinosus</i> , W85-00279	1801 2H
Occurrence of Organic Compounds in Water and Stream Sediments Due to the Mt. St. Helens Eruptions, W85-00061	1801 5B	Maximum Likelihood Estimates for the Param- eters of Mixture Distributions, W85-02156	1804 2E	Mt. St. Helens Ash in Lakes in the Lower Grand Coulee, Washington State, W85-02643	1805 5C
Mechanics of Mudflows, W85-01816	1804 8B	Chemical Content of Snow and Effect of Melting on Cascade Mountain Lakes, W85-02329	1805 5B	Measuring Intertidal Wave Forces, W85-03493	1807 2L
Removal and Inactivation of Bacteria During Alum Treatment of a Lake, W85-02602	1805 5G	Stochastic Optimization Model for Real-Time Operation of Reservoirs Using Uncertain Fore- casts, W85-02360	1805 4A	<b>WASHINGTON UNIV., SEATTLE. FISHERIES RESEARCH INST.</b>	
Comparison of Periphyton Growth on Artificial and Natural Substrates in the Upper Spokane River, W85-04666	1809 2H	Aquatic Insect Abundance in a Regulated Stream Under Fluctuating and Stable Diel Flow Patterns, W85-05880	1811 2H		

## ORGANIZATIONAL INDEX

<b>delta13C Evidence of the Origins and Fates of Organic Carbon in Estuarine and Nearshore Food Webs,</b> W85-06877	1812 2L		
<b>WASHINGTON UNIV., SEATTLE. INST. FOR ENVIRONMENTAL STUDIES.</b>			
Nutrient Processing in Amazon Floodplain Lakes, W85-04571	1809 2K		
<b>WASHINGTON UNIV., SEATTLE. SCHOOL OF FISHERIES.</b>			
Simulating the Biological Effects of Toxicants in Aquatic Microcosm Systems, W85-00261	1801 5C		
<b>WASHINGTON UNIV., SEATTLE. SCHOOL OF OCEANOGRAPHY.</b>			
Hydrocarbons in Washington Coastal Sediments, W85-01915	1804 5B		
Polycyclic Aromatic Hydrocarbons in Washington Coastal Sediments: An Evaluation of Atmospheric and Riverine Routes of Introduction, W85-02346	1805 5B		
Sediment-Water Exchange in Shallow Water Estuarine Sediments, W85-02473	1805 5B		
Mixing and Cycling of Uranium, Thorium and 210-Pb in Puget Sound Sediments, W85-03209	1806 2L		
Persistent Blooms of Surf Diatoms (Bacillariophyceae) along the Pacific Coast, USA. III. Relationships Between Diatom Populations and Environmental Variables along Oregon and Washington Beaches (1977 and 1978), W85-03839	1808 2L		
Effects of Sediment Transport on Deposit Feeding: Scaling Arguments, W85-03875	1808 2J		
Organic Matter Diagenesis in Freshwater Sediments: The Alkalinity and Total CO <sub>2</sub> Balance and Methane Production in the Sediments of Lake Washington, W85-03876	1808 2H		
210Pb-Derived Sediment Accumulation and Mixing Rates for the Greater Puget Sound Region, W85-06701	1812 2J		
<b>WASHINGTON UNIV., ST. LOUIS, MO. CENTER FOR AIR POLLUTION IMPACT AND TREND ANALYSIS.</b>			
Regional River Sulfur Runoff, W85-04481	1809 5B		
<b>WASHINGTON UNIV., ST. LOUIS, MO. DEPT. OF BIOLOGY.</b>			
Water Relations of Jamaican Upper Montane Rain Forest Trees, W85-04824	1809 2I		
<b>WASSER- UND ENERGIEWIRTSCHAFTSAMT DES KANTONS BERN (SWITZERLAND).</b>			
Basis for Automation of Control of the Thunsersee (Die Grundlagen für die Automatisierung der Thunserseeregulierung), W85-01260	1803 4A		
<b>WASSER- UND SCHIFFFAHRTSAMT FREIBURG (GERMANY, F.R.).</b>			
Check Weir at Kehl/Strassburg and the Lateral Polders of the River Rhine Near Altenheim (Das Kulturwehr Kehl/Strassburg und die Seitelpolder des Rheins bei Altenheim), W85-03437	1807 4A		
<b>WASSERWIRTSCHAFTSDIREKTION OBERE ELBE-NEISSE, DRESDEN (GERMAN D.R.).</b>			
Problems of Water Volume Balance in the Spree River District Impacted by Mining Operations (Probleme der Wassermengenbilanz im Bergbau beeinflussten Spreegebiet), W85-03515	1807 3B		
<b>WASSERWIRTSCHAFTSDIREKTION SAALE-WERRA, HALLE (GERMAN D.R.).</b>			
Increase of Capacity of the Weidatal Dam System (Die Steigerung der Leistungsfähigkeit des Systems der Weidatalsperrre), W85-03455	1807 4A		
Rehabilitation of the Bituminous Slope Lining at the Ohra Dam (Sanierungsarbeiten an der Bituminosen Aubenhaut der Ohra-Talsperre), W85-03456	1807 8A		
<b>WATER AND ELECTRICITY DEPT., ABU DHABI (UNITED ARAB EMIRATES).</b>			
Simple, More Accurate Criterion For Economic Evaluation of Desalination Projects, W85-01220	1803 3A		
<b>WATER AND POWER RESOURCES SERVICE, SACRAMENTO, CA. MID-PACIFIC REGION.</b>			
Validity of Density-Liquid Limit Predictions of Hydrocompaction, W85-00136	1801 8D		
<b>WATER AND SANITATION FOR HEALTH PROJECT, ARLINGTON, VA.</b>			
Development and Field Testing of a Methodology for Assessing Community Readiness for Self-Help in the Installation, Maintenance and Repair of Water Supply and Sanitation Facilities, W85-01980	1804 7C		
<b>WATER AUTHORITY HOLLANDSE EILANDEN EN WAARDEN, THE NETHERLANDS.</b>			
Industrial Effluent Control in the Netherlands and Legislation in this Field in Some Other European Countries, W85-04520	1809 5G		
<b>WATER DISTRICT OFFICE OF OULU (FINLAND).</b>			
Alkalinity and Chemical Oxygen Demand in Some Finnish Rivers During the Periods 1911-1931 and 1962-1979, W85-06291	1812 5B		
<b>WATER RESEARCH CENTRE, MARLOW (ENGLAND).</b>			
Contribution of River Systems to the Input of Pollutants to the Marine Environment in Northern Europe, W85-01395	1803 5B		
Solving the Problem of Rehabilitating Decayed Sewer Systems, W85-04768	1809 8A		
Lead in Water, Infant Diet and Blood: the Glasgow Duplicate Diet Study, W85-06548	1812 5C		
<b>WATER RESEARCH CENTRE, MEDMENHAM (ENGLAND). MEDMENHAM LAB.</b>			
Nonvolatile Organic Compounds in Treated Waters, W85-01208	1803 5F		
Organic Compounds in Water: Analysis Using Coupled-Column High-Performance Liquid Chromatography and Soft-Ionization Mass Spectrometry, W85-02808	1806 5A		
<b>WATER RESEARCH CENTRE, STEVENAGE (ENGLAND).</b>			
Application of the European Communities Directive on Dangerous Substances to List II Substances in the U.K., W85-01399	1803 5G		
Derivation of Environmental Quality Objectives and Standards for Black and Grey List Substances, W85-02227	1805 5G		
Quantities of Some Dangerous Substances Discharged to British Coastal Waters, W85-02759	1806 5B		
Control Strategies for Bulking Sludge, W85-03640	1807 5D		
Recirculation of Leachate as a Landfill Management Option: Benefits and Operational Problems, W85-03768	1808 5G		
<b>WATER RESEARCH CENTRE, SWINDON (ENGLAND). SWINDON ENGINEERING CENTRE.</b>			
Prediction and Control of Ground Movement Associated with Trench Excavation, W85-04516	1809 8D		
<b>WATER RESEARCH COMMISSION, PRETORIA (SOUTH AFRICA).</b>			
Setting of Water Quality Standards - South African Experience and Viewpoints, W85-01400	1803 6E		
<b>WATER RESOURCES COMMISSION OF NEW SOUTH WALES, SYDNEY (AUSTRALIA).</b>			
Management of Sediment in New South Wales, Australia, W85-04444	1809 4D		
<b>WATER SERVICES, REDHILL (ENGLAND).</b>			
Let the Seas Do the Disposal, W85-04648	1809 5E		
Water Resource Plan Produces Multiple Benefits, W85-05980	1811 6B		

## ORGANIZATIONAL INDEX

### **WATER SURVEYS (NIGERIA) LTD., BAUCHI.**

**WATER SURVEYS (NIGERIA) LTD., BAUCHI.**  
Application of a Microcomputer in the Analysis of Pumping Test Data in Confined Aquifers, W85-00361 1801 4B

### **WATERBOUWKUNDIG LAB., BORGERHOUT (BELGIUM).**

Simulation of Ecological Impacts of the New Outer-Harbour Development in Zeebrugge, W85-00565 1802 6G

### **WATERLOO REGIONAL MUNICIPALITY (ONTARIO).**

Managing Summer Lawn Irrigation Demands: A Water Use Index, W85-04694 1809 3D

### **WATERLOO UNIV. (ONTARIO).**

Determining Extraneous Flows in Waste Water Systems, W85-04689 1809 8A

### **WATERLOO UNIV. (ONTARIO). DEPT. OF BIOLOGY.**

Stress-Related Changes in Lake Whitefish (*Coregonus clupeaformis*) Associated with a Hydroelectric Control Structure, W85-03312 1807 6G

Phosphorus Flux through Epilimnetic Zooplankton from Lake Ontario: Relationship with Body Size and Significance to Phytoplankton, W85-03606 1807 2H

Diel and Seasonal Physico-Chemical Fluctuations in a Small Natural West African Lake, W85-03685 1807 2H

Detection and Analysis of Interactions between Atrazine and Sodium Pentachlorophenate with Single and Multiple Algal-Bacterial Populations, W85-05107 1810 5C

Uptake of Diquat by Four Aero-Aquatic Hymomycetes, W85-05852 1811 5C

Use of Fish Cell Cultures as an Indication of Contaminant Toxicity to Fish, W85-06440 1812 5A

### **WATERLOO UNIV. (ONTARIO). DEPT. OF CIVIL ENGINEERING.**

Numerical Simulation of Thermal Energy Storage Experiment Conducted by Auburn University, W85-00335 1801 4B

Dissolved Oxygen Concentrations in Lake Erie (U.S.A.-Canada); 1. Study of Spatial and Temporal Variability Using Cluster and Regression Analysis, W85-01609 1803 2H

Forecasting Relative Price Movements for Project Evaluation, W85-03158 1806 6C

Uncertainty Analysis of a Delineated Floodplain, W85-04041 1808 2E

Zero Side Yard Housing, Acceptance and Stormwater Management Implications, W85-04580 1809 4A

Methodology for Pollution Control Decision Analysis, W85-04582 1809 5G

River Flow Forecasting Model For Sturgeon River, W85-05786 1810 2E

Sensitivity Analysis for Steady State Groundwater Flow Using Adjoint Operators, W85-05799 1810 2F

Impact of Alternative Housing Standards on Stormwater Management, W85-06554 1812 4A

### **WATERLOO UNIV. (ONTARIO). DEPT. OF EARTH SCIENCES.**

Laboratory Studies of the Effects of the Capillary Fringe on Streamflow Generation, W85-01342 1803 2E

Contaminant Transport in Fractured Porous Media: Analytical Solution for a Two-Member Decay Chain in a Single Fracture, W85-02170 1804 5B

Comparative Study of Specific Yield Determinations for a Shallow Sand Aquifer, W85-03156 1806 2F

Water-Rock Interaction and Chemistry of Groundwaters from the Canadian Shield, W85-03205 1806 2K

Geochemical Reactions Associated with Low-Temperature Thermal Energy Storage in Aquifers, W85-03425 1807 2F

Diffusion of Nonreactive and Reactive Solutes through Fine-Grained Barrier Materials, W85-03427 1807 5E

Geochemical Evolution of Groundwater in Sequences of Sedimentary Rocks, W85-04269 1808 2K

Dual Formulation of Flow for Contaminant Transport Modeling; 1. Review of Theory and Accuracy Aspects, W85-05496 1810 5B

Dual Formulation of Flow for Contaminant Transport Modeling; 2. The Borden Aquifer, W85-05497 1810 5B

### **WATERLOO UNIV. (ONTARIO). DEPT. OF GEOGRAPHY.**

River Basin Planning: Problems, Opportunities and Implications for Ontario Conservation Authorities, W85-04572 1809 6A

Small Format, Hand Held Helicopter Based Photography for Monitoring Industrial Water Effluent Plumes, W85-04586 1809 7B

### **WATERLOOPKUNDIG LAB., DELFT (NETHERLANDS).**

Two Dimensional Water Quality Model Application for Hong Kong Coastal Waters, W85-00574 1802 6G

Modelling the Eutrophication Process of Lake IJssel, W85-00578 1802 5C

Optimization of Water Quality Monitoring Networks, W85-01406 1803 7A

Coupling of Groundwater and Open-Channel Flow, W85-01615 1803 2A

Some Ecological Consequences of a Projected Deep Reservoir in the Kabalebo River in Suriname, W85-01764 1804 6G

Sediment Transport, Part I: Bed Load Transport, W85-03011 1806 2J

### **WATERLOOPKUNDIG LAB., DELFT (NETHERLANDS). ENVIRONMENTAL HYDRAULICS BRANCH.**

Water Quality Modelling of the River Rhine and its Tributaries in Relation to Sanitation Strategies, W85-01415 1803 5G

### **WATERLOOPKUNDIG LAB. TE DELFT (NETHERLANDS).**

Sediment Transport, Part II: Suspended Load Transport, W85-03780 1808 2J

Sediment Transport, Part III: Bed Forms and Alluvial Roughness, W85-03786 1808 2J

Modelling Eutrophication in Shallow Dutch Lakes, W85-04551 1809 5C

Bed Deformation in Curved Alluvial Channels, W85-07033 1812 2J

### **WATERLOOPKUNDIG LAB. TE DELFT, WAGENINGEN (NETHERLANDS).**

WAGENINGEN BRANCH.  
V-Shaped Short-Crested Weir With Semicircular Cross Section, W85-03815 1808 7B

### **WATERMEYER, LEGGE, PIESOLD AND UHLMANN, BRAAMFONTEIN (SOUTH AFRICA).**

Masinga Dam in Kenya, W85-04471 1809 8A

### **WATERMEYER, LEGGE, PIESOLD AND UHLMANN, LONDON (ENGLAND).**

Malawi - Driving a 9 m Diameter Power Conduit with Low Cover at Nkula Falls, W85-04819 1809 8A

### **WATERWORKS OF HAJDU-BIHAR COUNTY, DEBRECEN (HUNGARY).**

Gas Chromatographic Method for the Determination of Elemental Sulphur in Sediments, W85-02305 1805 5A

### **WATSON AND NOBLE CONSULTING ENGINEERS, AUCKLAND (NEW ZEALAND).**

Designing Gates for Small Hydro Schemes, W85-06130 1811 8C

### **WEBER (WERNER) G.M.B.H., PFORZHEIM (GERMANY, F.R.).**

'Rennfeld' Small-Scale Hydroelectric Power Plant Near Pforzheim (Kleinwasserkraftanlage 'Rennfeld' bei Pforzheim), W85-04629 1809 8A

### **WEIDLINGER ASSOCIATES, MENLO PARK, CA.**

Slope Reliability and Response Surface Method, W85-04384 1808 8D

### **WEIZMANN INST. OF SCIENCE, REHOVOTH (ISRAEL).**

Short Meromictic Episode in the Dead Sea: 1979-1982, W85-02612 1805 2H

### **WEIZMANN INST. OF SCIENCE, REHOVOTH (ISRAEL). DEPT. OF ISOTOPE RESEARCH.**

Hydrogeochemistry of Continental Brackish Waters in the Southern Coastal Plain, Israel, W85-01095 1802 2K

Radium in the Dead Sea: A Possible Tracer for the Duration of Meromixis, W85-01330 1803 2H

Batch and Continuous Culture Experiments on Nutrient Limitations and Temperature Effects in the Marine Alga *Tetraselmis suecica*, W85-04973 1810 5D

## ORGANIZATIONAL INDEX

**WIEDEMAN AND SINGLETON, INC., ATLANTA, GA.**

Tracing Groundwater Components by Chemical, Isotopic and Physical Parameters - Example: Schinznach, Switzerland, W85-06046	1811 2F	<b>WESTECH ENGINEERING, INC., SALEM, OR.</b> Key to Effective I/I Control, W85-00739	1802 5D	Zooplankton Associations in the Swamps of Southern Sudan, W85-02406	1805 2H
<b>WELSH WATER AUTHORITY, NEWPORT (WALES).</b> Trihalomethanes in Some Treated Waters in SE Wales, W85-04336	1808 5F	<b>WESTERN AUSTRALIA DEPT. OF AGRICULTURE, SOUTH PERTH. DIV. OF RESOURCE MANAGEMENT.</b> Evapotranspiration of Four Major Agricultural Plant Communities in the South-West of Western Australia Measured with Large Ventilated Chambers, W85-06675	1812 2D	<b>WESTFIELD COLL., LONDON (ENGLAND). SCHOOL OF BIOLOGY.</b> Permanent Swamp Vegetation of the Upper Nile, W85-01031	1802 2L
<b>WELSH WATER AUTHORITY, POWYS (WALES).</b> Effects of Acidification on the Ecology of Streams in the Upper Tywi Catchment in West Wales, W85-02116	1804 5C	<b>WESTERN AUSTRALIA UNIV., NEDLANDS. DEPT. OF ZOOLOGY.</b> Seasonal Meromixis in Three Hypersaline Lakes on Rottnest Island, Western Australia, W85-01645	1804 2H	<b>WESTGATE RESEARCH CORP., WEST LOS ANGELES, CA.</b> Chemistry and Application of Ozone and Ultra-violet Light for Water Reuse: Pilot Plant Demonstration, W85-05407	1810 5D
Behaviour of Phosphate, Nitrate, Chloride and Hardness in Twelve Welsh Rivers, W85-02435	1805 5G	<b>WESTERN AUSTRALIA UNIV., NEDLANDS. DEPT. OF CIVIL ENGINEERING.</b> Ecological Effects of Various Coastal Defense Systems, W85-00561	1802 8A	<b>WESTINGHOUSE OCEANIC DIV., ANNAPOLIS, MD.</b> Measurement of Real Time Turbine Efficiency, W85-02678	1805 8C
Effects of Forestry on Water Quality and Fish in Welsh Rivers and Lakes, W85-06574	1812 5C	Mixing of Burdekin River Flood Waters in the Great Barrier Reef, W85-00776	1802 5B	<b>WESTON ENVIRONMENTAL CONSULTANTS-DESIGNERS, WEST CHESTER, PA.</b> 'Containment' Strategies to Manage Abandoned Hazardous Waste Sites in a Cost Effective Manner, W85-05375	1810 5E
<b>WESSEX WATER AUTHORITY, BRISTOL (ENGLAND).</b> Protection of Groundwater in Relation to Waste Disposal in Wessex Water Authority, W85-03766	1808 5E	Classification and Dynamic Simulation of the Vertical Density Structure of Lakes, W85-02222	1805 2H	Case History: Treatment of Chemical Plant Wastewater, W85-05433	1810 5D
Pilot-Plant Evaluation of a Deep Shaft Linked to Conventional Aeration Without Inter-Stage Settlement to Give a Fully-Nitrified Effluent, W85-04452	1809 5D	<b>WESTERN AUSTRALIA UNIV., NEDLANDS. DEPT. OF SOIL SCIENCE AND PLANT NUTRITION.</b> Wind-Related Resuspension of Sediments in the Peel-Harvey Estuarine System, W85-06851	1812 2L	<b>WESTON (ROY F.), INC., WEST CHESTER, PA.</b> Case History: Pretreatment of Textile Wastewater, W85-05239	1810 5D
<b>WESSEX WATER AUTHORITY, BRISTOL (ENGLAND), BRISTOL AVON DIV.</b> Automated Water Laboratory - What Benefit to the Consumer, W85-02011	1804 7B	<b>WESTERN ELECTRIC CO., INC., NEW YORK.</b> Treatment of Spent Detergent Solution Containing Monoethanolamine, W85-05296	1810 5D	Treatment System for Control of Radioactive Wastewater Generated During Cleanup of the Canonsburg, Pennsylvania, Site of the Uranium Mill Tailings Remedial Action Program, W85-05262	1810 5D
<b>WESSEX WATER AUTHORITY, POOLE (ENGLAND).</b> Different Approach to Water Quality Sampling, W85-04524	1809 5A	<b>WESTERN MICHIGAN UNIV., KALAMAZOO. DEPT. OF BIOLOGY.</b> Movement of Water from Peatland into Surrounding Groundwater, W85-00953	1802 2L	Activated Sludge Process: Fundamentals of Operation, W85-06932	1812 5D
<b>WEST VIRGINIA UNIV., MORGANTOWN.</b> Analysis of Total Phosphorus Transport in River Systems, W85-02074	1804 2E	<b>WESTERN WASHINGTON UNIV., BELLEVUE INST. FOR WATERSHED STUDIES.</b> Bacteriological Study of Geothermal Spring Waters Dating from Dogger and Trias Periods in the 'Bassin Parisien' (Etude Bacteriologique des eaux géothermales du Dogger et du Trias du Bassin Parisien), W85-03111	1806 2F	Estimation of Costs for Small Water Systems, W85-06950	1812 6C
Effects of Acidification and Phosphorus Addition on Phytoplankton Biomass and Productivity in a Circum-Neutral Mesotrophic Lake Receiving Acid Precipitation, W85-03123	1806 5C	Acidification History and Prediction Using Biological Indices, W85-05626	1810 5C	Developing Cost Estimating Methods for Surface-Water Intake Structures, W85-06951	1812 6C
<b>WEST VIRGINIA UNIV., MORGANTOWN. DEPT. OF BIOLOGY.</b> Effect of Phosphorus and Nitrogen Addition on the Algal Biomass and Species Composition of an Acidic Lake, W85-00762	1802 5C	<b>WESTFIELD COLL., LONDON (ENGLAND). DEPT. OF BOTANY.</b> Transfer of Lead by Freshwater Snails in Ullswater, Cumbria, W85-02747	1806 5B	<b>WEYERHAEUSER CO., CENTRALIA, WA. CENTRALIA RESEARCH CENTER.</b> Characteristics and Frequency of Cool-water Areas in a Western Washington Stream, W85-04315	1808 2H
Effect of Phosphorus Additions in Enclosures on the Phytoplankton and Zooplankton of an Acid Lake, W85-01454	1803 5C	Flux of Lead in Submerged Plants and its Relevance to a Freshwater System, W85-05745	1810 5B	<b>WEYERHAEUSER CO., ROTHSCILD, WI.</b> Design, Start-up and Operation of a Low Pressure Wet Air Sludge Oxidation Unit, W85-04234	1808 5D
Influence of Wetlands and Coal Mining on Stream Water Chemistry, W85-04011	1808 5B	Particulates and the Cycling of Lead in Ullswater, Cumbria, W85-06417	1812 5B	<b>WEYERHAEUSER CO., TACOMA, WA.</b> Near Zero D.O. Activated Sludge Case History, W85-05556	1810 5D
Effect of Acidification in Enclosures on the Biomass and Population Size Structure of Bosmina longirostris, W85-06388	1812 5C	<b>WHARTON SCHOOL, PHILADELPHIA, PA. DEPT. OF DECISION SCIENCES.</b> Interactive Computer Modeling for Policy Analysis: The Flood Hazard Problem, W85-05490	1810 6A		
<b>WESTEC SERVICES, INC., PLYMOUTH MEETING, PA.</b> Use of a Dam Break Model to Assess Flooding at Haddam Neck Nuclear Power Plant, W85-04998	1810 2E	<b>WHITMAN, REQUARDT AND ASSOCIATES, BALTIMORE, MD.</b> Pilot Plant Demonstration of Biological Phosphorus Removal, W85-01657	1804 5D		
<b>WESTFIELD COLL., LONDON (ENGLAND). DEPT. OF ZOOLOGY.</b> Faunistic Reconnaissance of Lakes Kundu and Keilak, Western Sudan, W85-01027	1802 2H	<b>WIEDEMAN AND SINGLETON, INC., ATLANTA, GA.</b> Pure O2 Retrofit Doubles Plant's Capacity, W85-04953	1809 5D		

## ORGANIZATIONAL INDEX

### **WILFRID LAURIER UNIV., WATERLOO (ONTARIO).**

#### **WILFRID LAURIER UNIV., WATERLOO (ONTARIO).**

Role of Pricing in Managing the Demand for Water,  
W85-04686 1809 6A

#### **WILLIAM AND MARY COLL., GLOUCESTER POINT, VA. INST. OF MARINE SCIENCE.**

Dredge Induced Turbidity Plume Model,  
W85-07078 1812 6G

#### **WILSON (LEE) AND ASSOCIATES, INC., SANTA FE, NM.**

Aquifer Classification for the UIC Program:  
Prototype Studies in New Mexico,  
W85-03150 1806 2F

#### **WINDSOR UNIV. (ONTARIO). DEPT. OF BIOLOGY.**

Seasonal Variation of Nutrient Limitation in  
Western Lake Erie,  
W85-04719 1809 2H

#### **WINDSOR UNIV. (ONTARIO). DEPT. OF CIVIL ENGINEERING.**

Hydrodynamic of Circular Primary Clarifiers,  
W85-01716 1804 5D

Reinforced Earth Retaining Wall Under Vertical and Horizontal Strip Loading,  
W85-03423 1807 8D

Flow Resistance of Ice-Covered Streams,  
W85-05459 1810 2E

Breakthrough of Brine through Compacted Fine Grained Soils,  
W85-05571 1810 5G

#### **WINDSOR UNIV. (ONTARIO). FACULTY OF LAW.**

Legal Aspects of Acidic Precipitation,  
W85-01669 1804 6E

#### **WINDSOR UNIV. (ONTARIO). GREAT LAKES INST.**

Ecological Significance of Upwelling Events in  
Lake Ontario,  
W85-01357 1803 2H

Progress in Municipal Phosphorus Control,  
W85-05981 1811 5G

#### **WINNIPEG UNIV. (MANITOBA). DEPT. OF BIOLOGY.**

Eco-geographical Tolerance Range Variation in  
Aquatic Macrophytes,  
W85-01006 1802 2H

Effects of Lake Acidification on Rates of Organic Matter Decomposition in Sediments,  
W85-02218 1805 5C

Ecology of Freshwater Gastropods on the Southwestern Edge of the Precambrian Shield,  
W85-06846 1812 2H

#### **WISCONSIN DEPT. OF NATURAL RESOURCES, MADISON.**

Landfill Leachate Migration and Attenuation in the Unsaturated Zone in Layered and Non-layered Coarse-Grained Soils,  
W85-00366 1801 5B

Quarter Century of Industrial Water Use and a Decade of Discharge Controls,  
W85-01382 1803 5D

Using a Biotic Index to Evaluate Water Quality in Streams,  
W85-06339 1812 5A

Extra Effort Wins Water Quality Payoffs,  
W85-06817 1812 5D

Duck Breeding Ecology and Harvest Characteristics on Grand River Marsh Wildlife Area,  
W85-06903 1812 2H

Distribution and Relative Abundance of Fishes in Wisconsin: III. Red River Basin,  
W85-06909 1812 2H

#### **WISCONSIN DEPT. OF NATURAL RESOURCES, MADISON. BUREAU OF SOLID WASTE MANAGEMENT.**

Chemical Characteristics of Leachate from Municipal Solid Waste Landfills in Wisconsin,  
W85-05371 1810 5E

#### **WISCONSIN DEPT. OF NATURAL RESOURCES, MADISON. NONPOINT SOURCE AND LAND MANAGEMENT SECTION.**

Nonpoint Pollution Control: The Wisconsin Experience,  
W85-05947 1811 5G

#### **WISCONSIN DEPT. OF NATURAL RESOURCES, MADISON. WATER QUALITY EVALUATION SECTION.**

Statistical Procedures for Applying Hilsenhoff's Biotic Index,  
W85-02245 1805 5A

#### **WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY, MADISON.**

Macrophyte Community Dynamics in Dredged Wisconsin Lake,  
W85-02984 1806 4A

Computerized Technique for Estimating the Hydraulic Conductivity of Aquifers From Specific Capacity Data,  
W85-05846 1810 2F

Data for Selected Wells in Northern Wisconsin Drought and Ground Levels in Northern Wisconsin: Appendix B,  
W85-06894 1812 2F

#### **WISCONSIN UNIV.-EXTENSION, MADISON. DEPT. OF ENGINEERING AND APPLIED SCIENCE.**

Fifth Annual Madison Conference of Applied Research and Practice on Municipal and Industrial Waste,  
W85-05364 1810 5D

Groundwater Quality Protection: Policies and Technical Resources,  
W85-05381 1810 5G

#### **WISCONSIN UNIV.-GREEN BAY. DEPT. OF REGIONAL ANALYSIS.**

Assessment of Urban Development into Coastal Wetlands Using Historical Aerial Photography: A Case Study,  
W85-00648 1802 6G

#### **WISCONSIN UNIV.-LA CROSSE. DEPT. OF BIOLOGY.**

Seasonal Study of a Freshwater Lake and Migratory Waterfowl for Campylobacter Jejuni,  
W85-01639 1804 5B

#### **WISCONSIN UNIV.-LA CROSSE. RIVER STUDIES CENTER.**

Distribution of Pseudomonas aeruginosa in a Riverine Ecosystem,  
W85-00100 1801 5B

#### **WISCONSIN UNIV.-MADISON.**

Drinking Water Treatment and Risk of Cancer Death in Wisconsin,  
W85-01214 1803 5C

#### **WISCONSIN UNIV.-MADISON. CENTER FOR LIMNOLOGY.**

Factors Structuring Fish Assemblages Along a Bog Lake Successional Gradient,  
W85-01891 1804 2H

#### **WISCONSIN UNIV.-MADISON. COLL. OF AGRICULTURAL AND LIFE SCIENCES.**

Plant Responses to Flooding of Soil,  
W85-00126 1801 2I

Regression Equations for Predicting Available Phosphorus and Potassium in Soil Receiving Barnyard Discharges,  
W85-03379 1807 5B

#### **WISCONSIN UNIV.-MADISON. DEPT. OF BACTERIOLOGY.**

Influence of pH on Terminal Carbon Metabolism in Anoxic Sediments from a Mildly Acidic Lake,  
W85-03735 1807 2H

#### **WISCONSIN UNIV.-MADISON. DEPT. OF CHEMICAL ENGINEERING.**

Dispersion of Trace Solutes in Flowing Groundwater,  
W85-02667 1805 5B

#### **WISCONSIN UNIV.-MADISON. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.**

Scales for Double-Diffusive Fingering in Porous Media,  
W85-02664 1805 2F

Empirical Study of Flood Measurement Error,  
W85-05805 1810 2E

#### **WISCONSIN UNIV.-MADISON. DEPT. OF GEOGRAPHY.**

Association between Net Basin Supplies to Lake Superior and Supplies to the Lower Great Lakes,  
W85-01755 1804 2H

#### **WISCONSIN UNIV.-MADISON. DEPT. OF GEOLOGY AND GEOPHYSICS.**

Investigation of Aldicarb in Ground Water in Selected Areas of the Central Sand Plain of Wisconsin,  
W85-00324 1801 5B

#### **WISCONSIN UNIV.-MADISON. DEPT. OF METEOROLOGY.**

Secular Variation of Ice Flow Velocity at Lewis Glacier, Mount Kenya, Kenya,  
W85-00676 1802 2C

Net Balance, Surface Lowering, and Ice-Flow Pattern in the Interior of Lewis Glacier, Mount Kenya, Kenya,  
W85-03343 1807 2C

#### **WISCONSIN UNIV.-MADISON. DEPT. OF SOIL SCIENCE.**

Soil and Water Losses as Affected by Tillage and Manure Application,  
W85-02323 1805 2J

Soil Moisture Regimes of Three Conservation Tillage Systems,  
W85-04737 1809 2G

Vegetable Processing Wastewaters: Liability or Asset,  
W85-05392 1810 5E

Primer on Nonpoint Pollution,  
W85-05939 1811 5B

Effect of Sludge Application of Physical Properties of a Silty Clay Loam Soil,  
W85-06715 1812 5E

#### **WISCONSIN UNIV.-MADISON. GEOPHYSICAL AND POLAR RESEARCH CENTER.**

Tabular Icebergs: Implications from Geophysical Studies of Ice Shelves,  
W85-00678 1802 2C

## ORGANIZATIONAL INDEX

**WRIGHT STATE UNIV., DAYTON, OH. DEPT. OF CHEMISTRY.**

**WISCONSIN UNIV.-MADISON. LAW SCHOOL.**

Exporting Colorado Water in Coal Slurry Pipelines,  
W85-06032 1811 6E

**WISCONSIN UNIV.-MADISON. SPACE SCIENCE AND ENGINEERING CENTER.**

Satellite Passive Microwave Rain Rate Measurement Over Croplands During Spring, Summer and Fall,  
W85-04984 1810 2B

**WISCONSIN UNIV.-MADISON. WATER CHEMISTRY LAB.**

Seasonal Variations of 210-Pb and 210-Po Concentrations in an Oligotrophic Lake,  
W85-03212 1806 2H

Arsenic and Antimony in Geothermal Waters of Yellowstone National Park, Wyoming, USA.  
W85-04370 1808 2K

Relationships Between Phosphorus Loading and Trophic State in Calcareous Lakes of Southeast Wisconsin,  
W85-05620 1810 5C

Lateral Solute Concentration Gradients in Stratified Eutrophic Lakes,  
W85-06509 1812 2H

**WISCONSIN UNIV.-MADISON. WATER RESOURCES CENTER.**

Pesticides in Groundwater Beneath the Central Sand Plain of Wisconsin,  
W85-02025 1804 5B

**WISCONSIN UNIV.-MILWAUKEE.**

Aquatic Ecotoxicology,  
W85-04077 1808 5C

**WISCONSIN UNIV.-MILWAUKEE. CENTER FOR GREAT LAKES STUDIES.**

Stratification of Microorganisms and Nutrients in the Surface Microlayer of Small Freshwater Ponds,  
W85-00407 1801 2H

Long-term Phytoplankton Changes in Lake Michigan: Cultural Eutrophication or Biotic Shifts,  
W85-02639 1805 2H

Dual Radiotracer Measurement of Zoobenthos-Mediated Solute and Particle Transport in Freshwater Sediments,  
W85-02964 1806 2J

Determination of the Hydrogeologic Properties of Lakebeds Using Offshore Geophysical Surveys,  
W85-03148 1806 2H

Preconcentration of Submicrogram Amounts of Metals from Natural Waters for X-ray Energy Spectrometric Determination Using Pyrrolidine-carbodiimic Acid,  
W85-04621 1809 5A

Effects of Free and Combined Chlorine and Exposure Duration on Rainbow Trout, Channel Catfish, and Emerald Shiners,  
W85-04681 1809 5C

Retrieval of Material from the Surface Microlayer with Screen and Plate Samplers and its Implications for Partitioning of Material within the Microlayer,  
W85-04895 1809 5A

**WISCONSIN UNIV.-MILWAUKEE. DEPT. OF CHEMISTRY.**

Zinc and Cadmium Metabolism in Euglena gracilis: Metal Distribution in Normal and Zinc-Deficient Cells,  
W85-05882 1811 5C

**WISCONSIN UNIV.-MILWAUKEE. DEPT. OF CIVIL ENGINEERING.**

Ecotoxicological Assays with Algae: Weibull Dose-Response Curves,  
W85-02348 1805 5C

Reinvestigation of the Analytical Solution for Drawdown Distributions in a Finite Confined Aquifer,  
W85-03170 1806 2F

Metal Inhibition of Nitrification,  
W85-05234 1810 5D

Oxygen Uptake Rates for Determining Microbial Activity and Application,  
W85-06230 1812 5D

Investigation of the Removal of Organics and Nitrogen in an Oxidation Ditch,  
W85-07044 1812 5D

**WISCONSIN UNIV.-MILWAUKEE. DEPT. OF GEOLOGICAL SCIENCES.**

Application of Combined Seismic and Electrical Measurements to the Determination of the Hydraulic Conductivity of a Lake Bed,  
W85-03178 1806 7B

**WISCONSIN UNIV.-OSHKOSH.**

Groundwater: A Survey of Contamination Potential in the Fox Valley Region,  
W85-00830 1802 5B

**WISCONSIN UNIV.-PARKSIDE, KENOSHA.**

Evaluation of Carbamate Toxicity: Acute Toxicity in a Culture of Paramecium Multimicronucleatum Upon Exposure to Aldicarb, Carbaryl, and Mexacarbate as Measured by Warburg Respirometry and Acute Plate Assay,  
W85-06168 1811 5C

**WOLLONGONG UNIV. (AUSTRALIA). DEPT. OF ECONOMICS.**

Flood Damage Mitigation: A Review of Structural and Nonstructural Measures and Alternative Decision Frameworks,  
W85-06495 1812 6B

**WOODARD AND CURRAN, GORHAM, ME.**

Five-Day Biochemical Oxygen Demand Removal from Rendering Plant Wastewater,  
W85-05255 1810 5D

**WOODHOUSE (ROBERT P.), SLIDELL, LA.**

Drainage of a Marginal Ice-Dammed Lake at Nordbogletscher, Johan Dahl Land, South Greenland,  
W85-00875 1802 2H

**WOODS HOLE OCEANOGRAPHIC INSTITUTION, MA.**

Nitrogen Budget of a Subarctic Stream Altered by Beaver (Castor canadensis),  
W85-00209 1801 2H

Milestones of Research on the Physical Limnology of the Great Lakes,  
W85-00918 1802 2H

Tidal Phase Control of Sediment Discharge from the Yangtze River,  
W85-02292 1805 2J

Transfer of Particulate Organic Carbon and Nitrogen from the Yangtze River to the Ocean,  
W85-02467 1805 2J

Carbon Flow Through Oxygen and Sulfate Reduction Pathways in Salt Marsh Sediments,  
W85-02790 1806 2L

Photochemistry of Natural Waters,  
W85-03660 1807 2K

Nitrogen Fixation in Subarctic Streams Influenced by Beaver (Castor canadensis),  
W85-05737 1810 2H

**WOODS HOLE OCEANOGRAPHIC INSTITUTION, MA. DEPT. OF BIOLOGY.**

Particulate allochthonous Inputs: Relationships with Stream Size in an Undisturbed Watershed,  
W85-03309 1807 2H

**WOODWARD-CLYDE CONSULTANTS, ENGLEWOOD, CO.**

Characterization of Stream Temperatures in Pakistan Using Harmonic Analysis,  
W85-00692 1802 2H

**WOODWARD-CLYDE CONSULTANTS, SAN FRANCISCO, CA.**

Street Sweeping as a Water Pollution Control Measure: Lessons Learned over the Past Ten Years,  
W85-00743 1802 5G

**WORCESTER POLYTECHNIC INST., HOLDEN, MA. ALDEN RESEARCH LABS.**

Surface Buoyant Jets in Stagnant Water,  
W85-00732 1802 2E

Scale Effects in Pump Sump Models,  
W85-03775 1808 8C

**WORLD COMMISSION ON ENVIRONMENT AND DEVELOPMENT, GENEVA (SWITZERLAND).**

Environmental Impact of Dams,  
W85-06133 1811 6G

**WORLD HEALTH ORGANIZATION, COPENHAGEN (DENMARK). REGIONAL OFFICE FOR EUROPE.**

International River Basin Management,  
W85-01388 1803 5G

**WORLD RESOURCES INST., WASHINGTON, DC.**

Salinity Pollution from Irrigated Agriculture,  
W85-05945 1811 5B

**WORLDWATCH INST., WASHINGTON, DC.**

Global Loss of Topsoil,  
W85-01320 1803 4D

**WRC ENGINEERING, INC., DENVER, CO.**

Storm Drainage Design and Technical Criteria,  
W85-05484 1810 4A

**WRIGHT-MCLAUGHLIN ENGINEERS, DENVER, CO.**

Examination of Recent Field Data on Stream Reaeration,  
W85-03808 1808 2E

**WRIGHT (R.E.) ASSOCIATES, MIDDLETOWN, PA.**

Special Groundwater Study of the Upper Delaware River Basin, Study Area III, Volume II.  
W85-06338 1812 6E

**WRIGHT STATE UNIV., DAYTON, OH.**

**BREHM LAB.** Chemical Study of the Interstitial Water Dissolved Organic Matter and Gases in Lake Erie, Cleveland Harbor, and Hamilton Harbour Bottom Sediments--Composition and Fluxes to Overlying Waters,  
W85-01814 1804 5B

**WRIGHT STATE UNIV., DAYTON, OH. DEPT. OF BIOLOGICAL SCIENCES.**

Toxins from Freshwater Cyanobacteria,  
W85-06779 1812 5A

**WRIGHT STATE UNIV., DAYTON, OH. DEPT. OF CHEMISTRY.**

Flux of Reduced Chemical Constituents ( $\text{Fe}^{2+}$ ,  $\text{Mn}^{2+}$ ,  $\text{NH}_4^+$  and  $\text{CH}_4$ ) and Sediment Oxygen Demand in Lake Erie,  
W85-02087 1804 2H

## ORGANIZATIONAL INDEX

### **WRIGHT STATE UNIV., DAYTON, OH. DEPT. OF GEOLOGY.**

**WRIGHT STATE UNIV., DAYTON, OH.  
DEPT. OF GEOLOGY.**

Ground Water as a Silica Source for Diatom Production in a Precipitation-Dominated Lake, W85-05775

1810 2H

**WRIGHT WATER ENGINEERS, INC.,  
DENVER, CO.**

Essential Urban Detention Ponding Considerations, W85-03062

1806 4A

**WROCLAW TECHNICAL UNIV. (POLAND).  
INST. OF GEOTECHNICAL SCIENCE.**

Hydrodynamic Pressures Acting Upon Hinged-Arc Gates, W85-06036

1811 8C

**WUHAN INST. OF HYDRAULIC AND  
ELECTRIC POWER ENGINEERING (CHINA).**

Economic Sprinkler Selection, Spacing, and Orientation, W85-03378

1807 3F

**WYOMING GAME AND FISH DEPT.,  
CHEYENNE.**

Relative Bias of Several Fisheries Instream Flow Methods, W85-03835

1808 2E

**WYOMING UNIV., LARAMIE, DEPT. OF  
AGRICULTURAL ECONOMICS.**

Cost Sharing with Irrigated Agriculture: Promise Versus Performance, W85-02361

1805 6C

**WYOMING UNIV., LARAMIE, DEPT. OF  
AGRICULTURAL ENGINEERING.**

Elevation - A Bias Error in SCS Blaney Criddle ET Estimates, W85-03373

1807 2D

**WYOMING UNIV., LARAMIE, DEPT. OF  
ATMOSPHERIC SCIENCE.**

Cloud Physics Studies in the SCPP, 1982-1983, W85-04214

1808 3B

Seeding Effects in Non-Convective Clouds of the SCPP, W85-04215

1808 3B

Wintertime Orographic Storms over the Sierra, Part II, The Precipitation Process, W85-04216

1808 3B

**WYOMING UNIV., LARAMIE, DEPT. OF  
BOTANY.**

Water and Nutrient Outflow from Contrasting Lodgepole Pine Forests in Wyoming, W85-04882

1809 2I

**WYOMING UNIV., LARAMIE, DEPT. OF  
CIVIL ENGINEERING.**

Water Pollution Control for Underground Coal Gasification, W85-00717

1802 5B

**WYOMING UNIV., LARAMIE, DEPT. OF  
ECONOMICS.**

Acid Deposition Control, A Benefit-Cost Analysis: Its Prospects and Limits, W85-04798

1809 6B

**WYOMING UNIV., LARAMIE, DEPT. OF  
GEOLOGY AND GEOPHYSICS.**

Fault Severed Aquifers Along the Perimeters of Wyoming Artesian Basins, W85-05838

1810 2F

Rejection of Recharge Water from Madison Aquifer Along Eastern Perimeter of Bighorn Artesian Basin, Wyoming, W85-06824

1812 2F

**WYOMING UNIV., LARAMIE, DIV. OF  
MICROBIOLOGY AND VETERINARY  
MEDICINE.**

Effect of Some Coal Gasification and Tar Sand Process Waters on the Viability of Indicator Bacteria of Fecal Contamination, W85-06725

1812 5C

**WYOMING UNIV., LARAMIE, WATER  
RESOURCES RESEARCH INST.**

Snowy Range Observatory: An Update and Review, W85-00861

1802 7C

**WYOMING WATER RESEARCH CENTER,  
LARAMIE.**

Evaluation of Fisherman Benefits Stemming from Special Use Fishery Management Programs, W85-01831

1804 6B

Use of Large Enclosures for Perturbation Experiments in Lentic Ecosystems: A Review, W85-05764

1810 5C

Channel Scouring Potential Using Logistic Analysis, W85-05779

1810 2E

**WYZSZA SZKOŁA NAUCZYCIELSKA W  
SLUPSKU (POLAND). DEPT. OF PHYSICS.**

Estimation of the Mercury Content in the Waters of the Pomeranian Baltic-Shore-Area, W85-06273

1812 5B

**YALE UNIV., NEW HAVEN, CT. DEPT. OF  
GEOLOGY AND GEOPHYSICS.**

Elemental Residence Times in Acton Lake, Ohio, W85-02241

1805 2H

**YAMAGATA UNIV. (JAPAN). DEPT. OF  
CHEMISTRY.**

Distribution of Minor Metallic Elements in River Water of Green Tuff Region, Yamagata Pref., W85-05997

1811 2K

Inorganic Carbonate Elimination from Water Samples for Dissolved Organic Carbon Analysis, W85-06002

1811 5A

**YANGTZE VALLEY PLANNING OFFICE,  
WUHAN (CHINA).**

Plotting Positions for Pearson Type-III Distribution, W85-03079

1806 2E

**YARMOUK UNIV., IRBID (JORDAN). DEPT.  
OF CIVIL ENGINEERING.**

Mixed Culture Biological Activity in Water Containing Variable Low Concentrations of Cyanide, Phenol, and BOD, W85-05419

1810 5D

**YOKOHAMA NATIONAL UNIV. (JAPAN).  
RECOVERY OF ACID FROM WASTEWATER BY ELECTRO-**

dialysis, W85-03977

1808 5D

Recovery of Acid from Wastewater by Electrodialysis, W85-07095

1812 5D

**YOKOHAMA NATIONAL UNIV. (JAPAN).  
DEPT. OF SAFETY AND ENVIRONMENTAL  
ENGINEERING.**

Adsorption of Surfactants on Sediments, W85-01960

1804 5A

**YORK COLL. OF PENNSYLVANIA. DEPT.  
OF BIOLOGICAL SCIENCES.**

Distribution of Fishes in the Brodhead Creek Drainage Monroe County, Pennsylvania, W85-03067

1806 2H

**YORK UNIV., DOWNSVIEW (ONTARIO).  
DEPT. OF GEOGRAPHY.**

Central Arizona Water Control Study: A Comparison of Alternate Plans Using Concordance Analysis and Multi-Dimension Scaling, W85-02974

1806 6B

Nitrate Transformations in Southern Ontario Stream Sediments, W85-03139

1806 2E

**YORK UNIV., TORONTO (ONTARIO). DEPT.  
OF GEOGRAPHY.**

Nitrate Distribution in the Ground Water of the Alliston Region of Ontario, Canada, W85-00347

1801 5B

**YORKSHIRE WATER AUTHORITY  
(ENGLAND).**

Effects of the Yorkshire Rivers on Dissolved Oxygen in the Humber Estuary, W85-01397

1803 5B

Effluent Standards for Reclaiming Industrial Rivers, W85-01405

1803 5D

Design and Development of the Flood Storage and Amenity Reservoirs of the Rother Valley Country Park, W85-03883

1808 4A

Development of a Comprehensive Sampling Programme for Yorkshire Water Authority, W85-03885

1808 5F

Polyelectrolyte Conditioning of Sheffield Sewage Sludge, W85-04005

1808 5E

Determination of COD by a Mercury-Free Open-Tube Method, W85-04467

1809 5A

Use of Performance Indicators in Sewage Treatment Appraisal, W85-04510

1809 5D

Resurrection of Deighton Sewage Treatment Works, W85-04512

1809 5D

Industrial Effluent Treatment at Sewage-Treatment Works: The Tadcaster Experience, W85-04521

1809 5D

Accelerated Cold Digestion: A New Look at an Old Technique, W85-04591

1809 5D

**YORKSHIRE WATER AUTHORITY  
(ENGLAND). SOUTHERN DIV.**

Some Problems for a Water Authority Caused by Toxic Metals in Trade Effluents, W85-00685

1802 5E

**ZAGREB UNIV. (YUGOSLAVIA). DEPT. OF  
ANALYTICAL CHEMISTRY.**

Effect of Temperature on the Sorption of Lead and Cadmium by Ion Exchange, W85-03415

1807 5D

**ZAGREB UNIV. (YUGOSLAVIA). FACULTY  
OF CIVIL ENGINEERING.**

Influence of Drainage Trenches on Slope Stability, W85-03098

1806 8D

**ZIMBABWE UNIV., HARARE. LAKE KARIBA  
RESEARCH STATION.**

Phytoplankton Gradients During the Rainy Season in Lake Kariba, W85-05644

1810 2H

**ZIMPRO, INC., ROTHSCHILD, WI.**

Bench-Scale Treatment of Lurgi Gasifier and H-Coal Wastewaters by the PACT System, W85-04037

1808 5D

## **ORGANIZATIONAL INDEX**

#### ZURICH WATER SUPPLY (SWITZERLAND).

**PACT/Wet Air Regeneration of an Organic Chemical Waste,  
W85-05225** 1810 SD

**Wet Oxidation of PACT Process Carbon  
Loaded with Toxic Compounds,  
W85-05420 1810 5D**

ZURICH UNIV., KILCHBERG  
(SWIZERLAND). HYDROBIOLOGICAL-  
LIMNOLOGICAL STATION

PLANT GROWTH POTENTIAL OF THE RIVER RHINE AND ITS TRIBUTARIES FROM LAKE CONSTANCE TO BASEL (1978/79) (Die pflanzliche Produktionskraft des Rheins und seiner Zuflüsse vom Bodensee-Untersee bis Basel (1978/79)),  
W85-01274 1803 5B

## Development of Oxygen Conditions in Lake Zurich from 1936 to 1982 (Entwicklung der Sauerstoffverhältnisse im Zürich-Obersee und im Zürich-Untersee von 1936 bis 1982), W85-02529 1805 2H

**Vertical Light Attenuation and Phytoplankton Development in Lake Zurich,  
W85-07069** 1812 2H

ZURICH UNIV. (SWITZERLAND). INST. OF  
PLANT BIOLOGY.

**PLANT BIOLOGY.**  
Performance of an Anaerobic Filter for Purification and Methane Production from Waste Water of a Sugar Refinery,  
W85-01605 1803 5D

#### **ZURICH WATER SUPPLY (SWITZERLAND).**

Hardhof Groundwater Complex in Zürich,  
W85-00709 1802 5G

Water Supply of Alexandria Egypt,  
W85-01985 1804 5F

## All About Ozone - Its Advantages and Disadvantages in Treating Water, W85-01986 1804 5F

Report on the Water Supply of the People's  
Republic of China,  
W85-01995 1804 SE

## New Materials in Pipe Networks - Special Consideration of Internal Coatings, W85-01997 1804 2G

**Review of the Water Supply in the Soviet Union,  
W85-02012**



## ACCESSION NUMBER INDEX

W84-00024	1801	2A	W85-00085	1801	2I	W85-00169	1801	5C	W85-00253	1801	5F
W85-00001	1801	2G	W85-00086	1801	5G	W85-00170	1801	5C	W85-00254	1801	5B
W85-00002	1801	2F	W85-00087	1801	5B	W85-00171	1801	5C	W85-00255	1801	5B
W85-00003	1801	2F	W85-00088	1801	2H	W85-00172	1801	5D	W85-00256	1801	2I
W85-00004	1801	2F	W85-00089	1801	2I	W85-00173	1801	2C	W85-00257	1801	2L
W85-00005	1801	2F	W85-00090	1801	5C	W85-00174	1801	5B	W85-00258	1801	5B
W85-00006	1801	2F	W85-00091	1801	6G	W85-00175	1801	8B	W85-00259	1801	5B
W85-00007	1801	2J	W85-00092	1801	5C	W85-00176	1801	2F	W85-00260	1801	5B
W85-00008	1801	2F	W85-00093	1801	2H	W85-00177	1801	2F	W85-00261	1801	5C
W85-00009	1801	2E	W85-00094	1801	5C	W85-00178	1801	2J	W85-00262	1801	5B
W85-00010	1801	2F	W85-00095	1801	5C	W85-00179	1801	4C	W85-00263	1801	5B
W85-00011	1801	2F	W85-00096	1801	5C	W85-00180	1801	2A	W85-00264	1801	5B
W85-00012	1801	2A	W85-00097	1801	5B	W85-00181	1801	2C	W85-00265	1801	5B
W85-00013	1801	2F	W85-00098	1801	2H	W85-00182	1801	2B	W85-00266	1801	5B
W85-00014	1801	2F	W85-00099	1801	5B	W85-00183	1801	2A	W85-00267	1801	5B
W85-00015	1801	2F	W85-00100	1801	5B	W85-00184	1801	2E	W85-00268	1801	2H
W85-00016	1801	2F	W85-00101	1801	5B	W85-00185	1801	2K	W85-00269	1801	2H
W85-00017	1801	2F	W85-00102	1801	5B	W85-00186	1801	2K	W85-00270	1801	2H
W85-00018	1801	2F	W85-00103	1801	5A	W85-00187	1801	2K	W85-00271	1801	5C
W85-00019	1801	2F	W85-00104	1801	2H	W85-00188	1801	2H	W85-00272	1801	5C
W85-00020	1801	2F	W85-00105	1801	5B	W85-00189	1801	2H	W85-00273	1801	5F
W85-00021	1801	2F	W85-00106	1801	5F	W85-00190	1801	2E	W85-00274	1801	8D
W85-00022	1801	2F	W85-00107	1801	5D	W85-00191	1801	5A	W85-00275	1801	6E
W85-00023	1801	5B	W85-00108	1801	2H	W85-00192	1801	2F	W85-00276	1801	6E
W85-00025	1801	2K	W85-00109	1801	2H	W85-00193	1801	2H	W85-00277	1801	5G
W85-00026	1801	5G	W85-00110	1801	2H	W85-00194	1801	8C	W85-00278	1801	4A
W85-00027	1801	4B	W85-00111	1801	2D	W85-00195	1801	8B	W85-00279	1801	2H
W85-00028	1801	4B	W85-00112	1801	2J	W85-00196	1801	8B	W85-00280	1801	2H
W85-00029	1801	4B	W85-00113	1801	2C	W85-00197	1801	2J	W85-00281	1801	6E
W85-00030	1801	4B	W85-00114	1801	5B	W85-00198	1801	7B	W85-00282	1801	4A
W85-00031	1801	4B	W85-00115	1801	5B	W85-00199	1801	8C	W85-00283	1801	5B
W85-00032	1801	7C	W85-00116	1801	2L	W85-00200	1801	5A	W85-00284	1801	5D
W85-00033	1801	4A	W85-00117	1801	2L	W85-00201	1801	5B	W85-00285	1801	5C
W85-00034	1801	4B	W85-00118	1801	5G	W85-00202	1801	5C	W85-00286	1801	5C
W85-00035	1801	6B	W85-00119	1801	2H	W85-00203	1801	6G	W85-00287	1801	5B
W85-00036	1801	2F	W85-00120	1801	2L	W85-00204	1801	5C	W85-00288	1801	5B
W85-00037	1801	2F	W85-00121	1801	2L	W85-00205	1801	5C	W85-00289	1801	5B
W85-00038	1801	5B	W85-00122	1801	2H	W85-00206	1801	5B	W85-00290	1801	2L
W85-00039	1801	2C	W85-00123	1801	2H	W85-00207	1801	2I	W85-00291	1801	6G
W85-00040	1801	7C	W85-00124	1801	2L	W85-00208	1801	2I	W85-00292	1801	2I
W85-00041	1801	7C	W85-00125	1801	5G	W85-00209	1801	2H	W85-00293	1801	2H
W85-00042	1801	6D	W85-00126	1801	2I	W85-00210	1801	5C	W85-00294	1801	5C
W85-00043	1801	8E	W85-00127	1801	2I	W85-00211	1801	5G	W85-00295	1801	2H
W85-00044	1801	6D	W85-00128	1801	5F	W85-00212	1801	5D	W85-00296	1801	5B
W85-00045	1801	5C	W85-00129	1801	4D	W85-00213	1801	5B	W85-00297	1801	2H
W85-00046	1801	6E	W85-00130	1801	2H	W85-00214	1801	2B	W85-00298	1801	2K
W85-00047	1801	10C	W85-00131	1801	6G	W85-00215	1801	2B	W85-00299	1801	5A
W85-00048	1801	5E	W85-00132	1801	5A	W85-00216	1801	2I	W85-00300	1801	4B
W85-00049	1801	5E	W85-00133	1801	4A	W85-00217	1801	2J	W85-00301	1801	4B
W85-00050	1801	5E	W85-00134	1801	5C	W85-00218	1801	2I	W85-00302	1801	4B
W85-00051	1801	5C	W85-00135	1801	5C	W85-00219	1801	5B	W85-00303	1801	4B
W85-00052	1801	7A	W85-00136	1801	8D	W85-00220	1801	7B	W85-00304	1801	5A
W85-00053	1801	5E	W85-00137	1801	8D	W85-00221	1801	2L	W85-00305	1801	2F
W85-00054	1801	5E	W85-00138	1801	5C	W85-00222	1801	5B	W85-00306	1801	2F
W85-00055	1801	5G	W85-00139	1801	2K	W85-00223	1801	2	W85-00307	1801	4B
W85-00056	1801	2C	W85-00140	1801	5C	W85-00224	1801	5C	W85-00308	1801	2F
W85-00057	1801	6B	W85-00141	1801	8D	W85-00225	1801	2H	W85-00309	1801	5B
W85-00058	1801	5B	W85-00142	1801	2G	W85-00226	1801	2H	W85-00310	1801	2F
W85-00059	1801	6F	W85-00143	1801	8D	W85-00227	1801	2H	W85-00311	1801	4B
W85-00060	1801	5E	W85-00144	1801	2L	W85-00228	1801	2H	W85-00312	1801	2G
W85-00061	1801	5B	W85-00145	1801	2J	W85-00229	1801	2H	W85-00313	1801	4B
W85-00062	1801	6G	W85-00146	1801	2J	W85-00230	1801	5C	W85-00314	1801	5A
W85-00063	1801	5B	W85-00147	1801	5G	W85-00231	1801	5C	W85-00315	1801	2F
W85-00064	1801	5C	W85-00148	1801	2J	W85-00232	1801	5B	W85-00316	1801	4B
W85-00065	1801	7B	W85-00149	1801	2H	W85-00233	1801	5C	W85-00317	1801	2F
W85-00066	1801	6B	W85-00150	1801	5C	W85-00234	1801	3F	W85-00318	1801	2F
W85-00067	1801	5B	W85-00151	1801	2H	W85-00235	1801	2I	W85-00319	1801	4B
W85-00068	1801	5C	W85-00152	1801	2H	W85-00236	1801	2C	W85-00320	1801	4B
W85-00069	1801	2A	W85-00153	1801	5B	W85-00237	1801	2C	W85-00321	1801	8F
W85-00070	1801	6G	W85-00154	1801	2H	W85-00238	1801	5B	W85-00322	1801	5E
W85-00071	1801	4A	W85-00155	1801	2G	W85-00239	1801	2K	W85-00323	1801	2A
W85-00072	1801	2K	W85-00156	1801	2G	W85-00240	1801	2K	W85-00324	1801	5B
W85-00073	1801	6D	W85-00157	1801	8A	W85-00241	1801	2K	W85-00325	1801	5B
W85-00074	1801	2J	W85-00158	1801	2G	W85-00242	1801	2B	W85-00326	1801	4B
W85-00075	1801	5B	W85-00159	1801	8I	W85-00243	1801	2K	W85-00327	1801	2F
W85-00076	1801	5D	W85-00160	1801	5B	W85-00244	1801	2K	W85-00328	1801	7B
W85-00077	1801	5A	W85-00161	1801	5B	W85-00245	1801	2K	W85-00329	1801	8D
W85-00078	1801	5C	W85-00162	1801	5B	W85-00246	1801	2K	W85-00330	1801	7B
W85-00079	1801	5D	W85-00163	1801	5C	W85-00247	1801	5B	W85-00331	1801	4B
W85-00080	1801	5D	W85-00164	1801	5A	W85-00248	1801	2L	W85-00332	1801	4B
W85-00081	1801	5D	W85-00165	1801	5A	W85-00249	1801	2H	W85-00333	1801	4B
W85-00082	1801	5D	W85-00166	1801	5A	W85-00250	1801	3A	W85-00334	1801	2F
W85-00083	1801	5D	W85-00167	1801	5A	W85-00251	1801	3A	W85-00335	1801	4B
W85-00084	1801	2F	W85-00168	1801	5A	W85-00252	1801	5D	W85-00336	1801	4B

## ACCESSION NUMBER INDEX

W85-00337

W85-00337	1801	2F	W85-00421	1801	5C	W85-00505	1801	8D	W85-00589	1802	2E
W85-00338	1801	2F	W85-00422	1801	2H	W85-00506	1801	8A	W85-00590	1802	2A
W85-00339	1801	2G	W85-00423	1801	5C	W85-00507	1801	8A	W85-00591	1802	4B
W85-00340	1801	2F	W85-00424	1801	5C	W85-00508	1802	7A	W85-00592	1802	2A
W85-00341	1801	6B	W85-00425	1801	6G	W85-00509	1802	2K	W85-00593	1802	7C
W85-00342	1801	4B	W85-00426	1801	2H	W85-00510	1802	5B	W85-00594	1802	2F
W85-00343	1801	4B	W85-00427	1801	8A	W85-00511	1802	5A	W85-00595	1802	6G
W85-00344	1801	4B	W85-00428	1801	8F	W85-00512	1802	5B	W85-00596	1802	5B
W85-00345	1801	2F	W85-00429	1801	8D	W85-00513	1802	2B	W85-00597	1802	5B
W85-00346	1801	2F	W85-00430	1801	8E	W85-00514	1802	2K	W85-00598	1802	2F
W85-00347	1801	5B	W85-00431	1801	8B	W85-00515	1802	2K	W85-00599	1802	7C
W85-00348	1801	5D	W85-00432	1801	8C	W85-00516	1802	2L	W85-00600	1802	2E
W85-00349	1801	5B	W85-00433	1801	8E	W85-00517	1802	2B	W85-00601	1802	4B
W85-00350	1801	2F	W85-00434	1801	8C	W85-00518	1802	2C	W85-00602	1802	7C
W85-00351	1801	2F	W85-00435	1801	8A	W85-00519	1802	2C	W85-00603	1802	7C
W85-00352	1801	2F	W85-00436	1801	8A	W85-00520	1802	2K	W85-00604	1802	5B
W85-00353	1801	5B	W85-00437	1801	2E	W85-00521	1802	7B	W85-00605	1802	5B
W85-00354	1801	4B	W85-00438	1801	8C	W85-00522	1802	7B	W85-00606	1802	6G
W85-00355	1801	2F	W85-00439	1801	8C	W85-00523	1802	2E	W85-00607	1802	6G
W85-00356	1801	5A	W85-00440	1801	8D	W85-00524	1802	8B	W85-00608	1802	3A
W85-00357	1801	7B	W85-00441	1801	8A	W85-00525	1802	2J	W85-00609	1802	5E
W85-00358	1801	6B	W85-00442	1801	8H	W85-00526	1802	7B	W85-00610	1802	8I
W85-00359	1801	2F	W85-00443	1801	8D	W85-00527	1802	5B	W85-00611	1802	8B
W85-00360	1801	5A	W85-00444	1801	8B	W85-00528	1802	2H	W85-00612	1802	5A
W85-00361	1801	4B	W85-00445	1801	8B	W85-00529	1802	2H	W85-00613	1802	2D
W85-00362	1801	4A	W85-00446	1801	8F	W85-00530	1802	5B	W85-00614	1802	5B
W85-00363	1801	5F	W85-00447	1801	8D	W85-00531	1802	2K	W85-00615	1802	7C
W85-00364	1801	5A	W85-00448	1801	8A	W85-00532	1802	2H	W85-00616	1802	7C
W85-00365	1801	5B	W85-00449	1801	4A	W85-00533	1802	5B	W85-00617	1802	4A
W85-00366	1801	5B	W85-00450	1801	8A	W85-00534	1802	2H	W85-00618	1802	4B
W85-00367	1801	6E	W85-00451	1801	8E	W85-00535	1802	5C	W85-00619	1802	4C
W85-00368	1801	4A	W85-00452	1801	8B	W85-00536	1802	2H	W85-00620	1802	5B
W85-00369	1801	4A	W85-00453	1801	2E	W85-00537	1802	2F	W85-00621	1802	5A
W85-00370	1801	4A	W85-00454	1801	2E	W85-00538	1802	2H	W85-00622	1802	5A
W85-00371	1801	4A	W85-00455	1801	8E	W85-00539	1802	5C	W85-00623	1802	6B
W85-00372	1801	4A	W85-00456	1801	8A	W85-00540	1802	2H	W85-00624	1802	5E
W85-00373	1801	8A	W85-00457	1801	8D	W85-00541	1802	5C	W85-00625	1802	2D
W85-00374	1801	8A	W85-00458	1801	8E	W85-00542	1802	2H	W85-00626	1802	2D
W85-00375	1801	8C	W85-00459	1801	8D	W85-00543	1802	2F	W85-00627	1802	2H
W85-00376	1801	8C	W85-00460	1801	8C	W85-00544	1802	2H	W85-00628	1802	2H
W85-00377	1801	8C	W85-00461	1801	8G	W85-00545	1802	6A	W85-00629	1802	5G
W85-00378	1801	8B	W85-00462	1801	8G	W85-00546	1802	5B	W85-00630	1802	2H
W85-00379	1801	8C	W85-00463	1801	8F	W85-00547	1802	5A	W85-00631	1802	6G
W85-00380	1801	8A	W85-00464	1801	6F	W85-00548	1802	5B	W85-00632	1802	6G
W85-00381	1801	6G	W85-00465	1801	8F	W85-00549	1802	2H	W85-00633	1802	6G
W85-00382	1801	8C	W85-00466	1801	6G	W85-00550	1802	5C	W85-00634	1802	6G
W85-00383	1801	8C	W85-00467	1801	6A	W85-00551	1802	5F	W85-00635	1802	6G
W85-00384	1801	2H	W85-00468	1801	8E	W85-00552	1802	8A	W85-00636	1802	2H
W85-00385	1801	8C	W85-00469	1801	8B	W85-00553	1802	5B	W85-00637	1802	6G
W85-00386	1801	8C	W85-00470	1801	8D	W85-00554	1802	5D	W85-00638	1802	5G
W85-00387	1801	2L	W85-00471	1801	8E	W85-00555	1802	4A	W85-00639	1802	2H
W85-00388	1801	7B	W85-00472	1801	8A	W85-00556	1802	5F	W85-00640	1802	5B
W85-00389	1801	7B	W85-00473	1801	8B	W85-00557	1802	5D	W85-00641	1802	6G
W85-00390	1801	2D	W85-00474	1801	8B	W85-00558	1802	5C	W85-00642	1802	6G
W85-00391	1801	2B	W85-00475	1801	8B	W85-00559	1802	5A	W85-00643	1802	6G
W85-00392	1801	2B	W85-00476	1801	6B	W85-00560	1802	5B	W85-00644	1802	6G
W85-00393	1801	2B	W85-00477	1801	8A	W85-00561	1802	8A	W85-00645	1802	6G
W85-00394	1801	2B	W85-00478	1801	8E	W85-00562	1802	8A	W85-00646	1802	6G
W85-00395	1801	2H	W85-00479	1801	4A	W85-00563	1802	5C	W85-00647	1802	6B
W85-00396	1801	2H	W85-00480	1801	6G	W85-00564	1802	6G	W85-00648	1802	6G
W85-00397	1801	5C	W85-00481	1801	8D	W85-00565	1802	6G	W85-00649	1802	5B
W85-00398	1801	2H	W85-00482	1801	8D	W85-00566	1802	6G	W85-00650	1802	2L
W85-00399	1801	5C	W85-00483	1801	8B	W85-00567	1802	6G	W85-00651	1802	5B
W85-00400	1801	2H	W85-00484	1801	8A	W85-00568	1802	6G	W85-00652	1802	2L
W85-00401	1801	5C	W85-00485	1801	3B	W85-00569	1802	6G	W85-00653	1802	2L
W85-00402	1801	2H	W85-00486	1801	4A	W85-00570	1802	5C	W85-00654	1802	5B
W85-00403	1801	2H	W85-00487	1801	8A	W85-00571	1802	5A	W85-00655	1802	2L
W85-00404	1801	5C	W85-00488	1801	8A	W85-00572	1802	5E	W85-00656	1802	2L
W85-00405	1801	2J	W85-00489	1801	2E	W85-00573	1802	5G	W85-00657	1802	2L
W85-00406	1801	2K	W85-00490	1801	6A	W85-00574	1802	6G	W85-00658	1802	2L
W85-00407	1801	2H	W85-00491	1801	8D	W85-00575	1802	6G	W85-00659	1802	5B
W85-00408	1801	2L	W85-00492	1801	8F	W85-00576	1802	6G	W85-00660	1802	2L
W85-00409	1801	2H	W85-00493	1801	8B	W85-00577	1802	6E	W85-00661	1802	2K
W85-00410	1801	5D	W85-00494	1801	8F	W85-00578	1802	5C	W85-00662	1802	5B
W85-00411	1801	2K	W85-00495	1801	8A	W85-00579	1802	6G	W85-00663	1802	2L
W85-00412	1801	2K	W85-00496	1801	8F	W85-00580	1802	5C	W85-00664	1802	2L
W85-00413	1801	2H	W85-00497	1801	4A	W85-00581	1802	2E	W85-00665	1802	2L
W85-00414	1801	2K	W85-00498	1801	8A	W85-00582	1802	2F	W85-00666	1802	5A
W85-00415	1801	5C	W85-00499	1801	8A	W85-00583	1802	5B	W85-00667	1802	2L
W85-00416	1801	5A	W85-00500	1801	6B	W85-00584	1802	2F	W85-00668	1802	5B
W85-00417	1801	2H	W85-00501	1801	8A	W85-00585	1802	2F	W85-00669	1802	5B
W85-00418	1801	2H	W85-00502	1801	4A	W85-00586	1802	7A	W85-00670	1802	2A
W85-00419	1801	5A	W85-00503	1801	8A	W85-00587	1802	7C	W85-00671	1802	2C
W85-00420	1801	6A	W85-00504	1801	4A	W85-00588	1802	2F	W85-00672	1802	2C

## ACCESSION NUMBER INDEX

W85-01008

W85-00673	1802	2C	W85-00757	1802	2G	W85-00841	1802	5B	W85-00925	1802	5B
W85-00674	1802	2C	W85-00758	1802	2E	W85-00842	1802	2F	W85-00926	1802	5A
W85-00675	1802	2C	W85-00759	1802	5F	W85-00843	1802	5G	W85-00927	1802	5C
W85-00676	1802	2C	W85-00760	1802	2A	W85-00844	1802	2F	W85-00928	1802	4A
W85-00677	1802	2J	W85-00761	1802	2H	W85-00845	1802	2F	W85-00929	1802	5B
W85-00678	1802	2C	W85-00762	1802	5C	W85-00846	1802	4D	W85-00930	1802	2H
W85-00679	1802	5E	W85-00763	1802	2H	W85-00847	1802	4C	W85-00931	1802	2H
W85-00680	1802	3C	W85-00764	1802	2H	W85-00848	1802	2F	W85-00932	1802	2H
W85-00681	1802	5C	W85-00765	1802	2F	W85-00849	1802	2E	W85-00933	1802	2H
W85-00682	1802	5C	W85-00766	1802	2H	W85-00850	1802	5G	W85-00934	1802	5B
W85-00683	1802	5C	W85-00767	1802	2H	W85-00851	1802	2F	W85-00935	1802	2H
W85-00684	1802	5D	W85-00768	1802	5A	W85-00852	1802	7A	W85-00936	1802	5B
W85-00685	1802	5E	W85-00769	1802	2H	W85-00853	1802	5A	W85-00937	1802	5B
W85-00686	1802	2C	W85-00770	1802	2H	W85-00854	1802	2F	W85-00938	1802	5G
W85-00687	1802	5C	W85-00771	1802	2H	W85-00855	1802	5B	W85-00939	1802	6E
W85-00688	1802	5C	W85-00772	1802	2H	W85-00856	1802	5B	W85-00940	1802	5G
W85-00689	1802	7B	W85-00773	1802	2H	W85-00857	1802	5B	W85-00941	1802	6E
W85-00690	1802	2F	W85-00774	1802	2A	W85-00858	1802	4C	W85-00942	1802	6E
W85-00691	1802	2J	W85-00775	1802	6G	W85-00859	1802	7C	W85-00943	1802	8C
W85-00692	1802	2H	W85-00776	1802	5B	W85-00860	1802	5B	W85-00944	1802	8A
W85-00693	1802	2A	W85-00777	1802	2L	W85-00861	1802	7C	W85-00945	1802	1A
W85-00694	1802	2E	W85-00778	1802	5B	W85-00862	1802	6C	W85-00946	1802	5F
W85-00695	1802	2F	W85-00779	1802	2H	W85-00863	1802	3A	W85-00947	1802	2H
W85-00696	1802	8F	W85-00780	1802	5B	W85-00864	1802	10C	W85-00948	1802	2F
W85-00697	1802	5A	W85-00781	1802	5A	W85-00865	1802	5E	W85-00949	1802	2L
W85-00698	1802	5G	W85-00782	1802	5C	W85-00866	1802	2F	W85-00950	1802	2H
W85-00699	1802	6E	W85-00783	1802	2H	W85-00867	1802	2H	W85-00951	1802	2H
W85-00700	1802	5F	W85-00784	1802	5B	W85-00868	1802	2H	W85-00952	1802	2L
W85-00701	1802	5A	W85-00785	1802	2L	W85-00869	1802	2H	W85-00953	1802	2L
W85-00702	1802	5F	W85-00786	1802	5A	W85-00870	1802	2H	W85-00954	1802	5G
W85-00703	1802	5G	W85-00787	1802	5B	W85-00871	1802	2H	W85-00955	1802	5B
W85-00704	1802	5B	W85-00788	1802	6G	W85-00872	1802	5C	W85-00956	1802	2J
W85-00705	1802	5F	W85-00789	1802	5C	W85-00873	1802	5C	W85-00957	1802	2J
W85-00706	1802	6B	W85-00790	1802	2H	W85-00874	1802	2H	W85-00958	1802	2C
W85-00707	1802	6B	W85-00791	1802	2H	W85-00875	1802	2H	W85-00959	1802	2C
W85-00708	1802	5F	W85-00792	1802	2J	W85-00876	1802	2K	W85-00960	1802	2E
W85-00709	1802	5G	W85-00793	1802	5C	W85-00877	1802	2C	W85-00961	1802	4D
W85-00710	1802	5F	W85-00794	1802	6G	W85-00878	1802	5A	W85-00962	1802	5B
W85-00711	1802	5F	W85-00795	1802	5C	W85-00879	1802	5C	W85-00963	1802	5C
W85-00712	1802	5D	W85-00796	1802	5C	W85-00880	1802	5D	W85-00964	1802	5B
W85-00713	1802	8B	W85-00797	1802	5C	W85-00881	1802	5C	W85-00965	1802	6G
W85-00714	1802	2E	W85-00798	1802	5C	W85-00882	1802	5C	W85-00966	1802	5B
W85-00715	1802	8B	W85-00799	1802	2H	W85-00883	1802	5C	W85-00967	1802	5B
W85-00716	1802	8B	W85-00800	1802	5C	W85-00884	1802	5C	W85-00968	1802	2E
W85-00717	1802	5B	W85-00801	1802	5B	W85-00885	1802	5C	W85-00969	1802	7B
W85-00718	1802	5B	W85-00802	1802	5B	W85-00886	1802	5C	W85-00970	1802	7A
W85-00719	1802	5B	W85-00803	1802	5C	W85-00887	1802	2H	W85-00971	1802	6G
W85-00720	1802	5F	W85-00804	1802	2H	W85-00888	1802	5C	W85-00972	1802	5A
W85-00721	1802	5D	W85-00805	1802	2H	W85-00889	1802	2H	W85-00973	1802	7B
W85-00722	1802	2K	W85-00806	1802	2H	W85-00890	1802	2H	W85-00974	1802	6E
W85-00723	1802	8E	W85-00807	1802	2H	W85-00891	1802	5B	W85-00975	1802	6G
W85-00724	1802	2E	W85-00808	1802	5A	W85-00892	1802	2H	W85-00976	1802	5A
W85-00725	1802	8A	W85-00809	1802	2H	W85-00893	1802	5A	W85-00977	1802	5B
W85-00726	1802	5B	W85-00810	1802	2H	W85-00894	1802	2H	W85-00978	1802	2L
W85-00727	1802	8B	W85-00811	1802	2H	W85-00895	1802	2K	W85-00979	1802	6G
W85-00728	1802	8B	W85-00812	1802	3B	W85-00896	1802	5A	W85-00980	1802	5G
W85-00729	1802	8B	W85-00813	1802	6G	W85-00897	1802	5A	W85-00981	1802	2J
W85-00730	1802	8B	W85-00814	1802	6G	W85-00898	1802	2A	W85-00982	1802	2H
W85-00731	1802	8B	W85-00815	1802	5G	W85-00899	1802	2D	W85-00983	1802	2L
W85-00732	1802	2E	W85-00816	1802	5C	W85-00900	1802	2H	W85-00984	1802	2H
W85-00733	1802	8B	W85-00817	1802	5A	W85-00901	1802	2A	W85-00985	1802	5C
W85-00734	1802	5B	W85-00818	1802	5A	W85-00902	1802	2H	W85-00986	1802	2H
W85-00735	1802	8A	W85-00819	1802	5B	W85-00903	1802	2H	W85-00987	1802	5C
W85-00736	1802	8C	W85-00820	1802	5B	W85-00904	1802	2H	W85-00988	1802	5C
W85-00737	1802	4A	W85-00821	1802	5B	W85-00905	1802	2L	W85-00989	1802	2H
W85-00738	1802	5F	W85-00822	1802	5B	W85-00906	1802	5D	W85-00990	1802	5C
W85-00739	1802	5D	W85-00823	1802	5B	W85-00907	1802	5A	W85-00991	1802	5C
W85-00740	1802	5F	W85-00824	1802	6D	W85-00908	1802	5D	W85-00992	1802	5A
W85-00741	1802	5B	W85-00825	1802	6D	W85-00909	1802	5C	W85-00993	1802	2L
W85-00742	1802	5B	W85-00826	1802	6C	W85-00910	1802	5B	W85-00994	1802	2H
W85-00743	1802	5G	W85-00827	1802	5B	W85-00911	1802	6E	W85-00995	1802	5G
W85-00744	1802	5G	W85-00828	1802	5G	W85-00912	1802	2L	W85-00996	1802	5C
W85-00745	1802	5C	W85-00829	1802	5C	W85-00913	1802	2J	W85-00997	1802	2H
W85-00746	1802	5B	W85-00830	1802	5B	W85-00914	1802	2L	W85-00998	1802	2H
W85-00747	1802	5B	W85-00831	1802	2H	W85-00915	1802	7B	W85-00999	1802	2H
W85-00748	1802	5B	W85-00832	1802	5G	W85-00916	1802	4A	W85-01000	1802	2L
W85-00749	1802	5B	W85-00833	1802	5B	W85-00917	1802	2H	W85-01001	1802	2H
W85-00750	1802	3C	W85-00834	1802	5G	W85-00918	1802	2H	W85-01002	1802	2E
W85-00751	1802	2G	W85-00835	1802	5F	W85-00919	1802	2H	W85-01003	1802	5C
W85-00752	1802	2G	W85-00836	1802	4A	W85-00920	1802	6E	W85-01004	1802	2H
W85-00753	1802	2G	W85-00837	1802	2A	W85-00921	1802	2H	W85-01005	1802	5C
W85-00754	1802	2G	W85-00838	1802	5G	W85-00922	1802	2H	W85-01006	1802	2H
W85-00755	1802	5G	W85-00839	1802	5D	W85-00923	1802	2H	W85-01007	1802	2H
W85-00756	1802	2G	W85-00840	1802	5G	W85-00924	1802	2H	W85-01008	1802	2H

## ACCESSION NUMBER INDEX

W85-01009

W85-01009	1802	5B	W85-01093	1802	3F	W85-01177	1803	2G	W85-01261	1803	8F
W85-01010	1802	5C	W85-01094	1802	5B	W85-01178	1803	5G	W85-01262	1803	8A
W85-01011	1802	5A	W85-01095	1802	2K	W85-01179	1803	2I	W85-01263	1803	6A
W85-01012	1802	5C	W85-01096	1802	2H	W85-01180	1803	4D	W85-01264	1803	8A
W85-01013	1802	2H	W85-01097	1802	2K	W85-01181	1803	7B	W85-01265	1803	8A
W85-01014	1802	2H	W85-01098	1802	2L	W85-01182	1803	3F	W85-01266	1803	5C
W85-01015	1802	2H	W85-01099	1802	2J	W85-01183	1803	2A	W85-01267	1803	8B
W85-01016	1802	2H	W85-01100	1802	2J	W85-01184	1803	2G	W85-01268	1803	2A
W85-01017	1802	2H	W85-01101	1802	2J	W85-01185	1803	5E	W85-01269	1803	2A
W85-01018	1802	2H	W85-01102	1802	5B	W85-01186	1803	8C	W85-01270	1803	4A
W85-01019	1802	2H	W85-01103	1802	2J	W85-01187	1803	3F	W85-01271	1803	4A
W85-01020	1802	2H	W85-01104	1802	5B	W85-01188	1803	2G	W85-01272	1803	8C
W85-01021	1802	5C	W85-01105	1802	2L	W85-01189	1803	2J	W85-01273	1803	8A
W85-01022	1802	2H	W85-01106	1802	2K	W85-01190	1803	3F	W85-01274	1803	5B
W85-01023	1802	2L	W85-01107	1802	2H	W85-01191	1803	7B	W85-01275	1803	2E
W85-01024	1802	2H	W85-01108	1802	2I	W85-01192	1803	5B	W85-01276	1803	2J
W85-01025	1802	6B	W85-01109	1802	2I	W85-01193	1803	3F	W85-01277	1803	2J
W85-01026	1802	2H	W85-01110	1802	2H	W85-01194	1803	6A	W85-01278	1803	2I
W85-01027	1802	2H	W85-01111	1802	2H	W85-01195	1803	3F	W85-01279	1803	5B
W85-01028	1802	6G	W85-01112	1802	2H	W85-01196	1803	5E	W85-01280	1803	5B
W85-01029	1802	2H	W85-01113	1802	2H	W85-01197	1803	5F	W85-01281	1803	5B
W85-01030	1802	2H	W85-01114	1802	2H	W85-01198	1803	5F	W85-01282	1803	5G
W85-01031	1802	2L	W85-01115	1802	5D	W85-01199	1803	5F	W85-01283	1803	5B
W85-01032	1802	5C	W85-01116	1802	5B	W85-01200	1803	5F	W85-01284	1803	5B
W85-01033	1802	2H	W85-01117	1802	2H	W85-01201	1803	5F	W85-01285	1803	5B
W85-01034	1802	8A	W85-01118	1803	6G	W85-01202	1803	5F	W85-01286	1803	5B
W85-01035	1802	4A	W85-01119	1803	5C	W85-01203	1803	5F	W85-01287	1803	5B
W85-01036	1802	3F	W85-01200	1803	5C	W85-01204	1803	5F	W85-01288	1803	5B
W85-01037	1802	3F	W85-01211	1803	4A	W85-01205	1803	5F	W85-01289	1803	5G
W85-01038	1802	6E	W85-01212	1803	5B	W85-01206	1803	5F	W85-01290	1803	5B
W85-01039	1802	3F	W85-01213	1803	5B	W85-01207	1803	5B	W85-01291	1803	5B
W85-01040	1802	5B	W85-01214	1803	5F	W85-01208	1803	5F	W85-01292	1803	5B
W85-01041	1802	2B	W85-01215	1803	7C	W85-01209	1803	5F	W85-01293	1803	5B
W85-01042	1802	2C	W85-01216	1803	5A	W85-01210	1803	5F	W85-01294	1803	5B
W85-01043	1802	2H	W85-01217	1803	5C	W85-01211	1803	5C	W85-01295	1803	5D
W85-01044	1802	2D	W85-01218	1803	5C	W85-01212	1803	5C	W85-01296	1803	5C
W85-01045	1802	2H	W85-01219	1803	8F	W85-01213	1803	5C	W85-01297	1803	5B
W85-01046	1802	5B	W85-01210	1803	2H	W85-01214	1803	5C	W85-01298	1803	5B
W85-01047	1802	5B	W85-01131	1803	2J	W85-01215	1803	5C	W85-01299	1803	2K
W85-01048	1802	2L	W85-01132	1803	2E	W85-01216	1803	5C	W85-01300	1803	2K
W85-01049	1802	5B	W85-01133	1803	2E	W85-01217	1803	5F	W85-01301	1803	2L
W85-01050	1802	5A	W85-01134	1803	2E	W85-01218	1803	5F	W85-01302	1803	2H
W85-01051	1802	2K	W85-01135	1803	2A	W85-01219	1803	3A	W85-01303	1803	2H
W85-01052	1802	2J	W85-01136	1803	2F	W85-01220	1803	3A	W85-01304	1803	3F
W85-01053	1802	2J	W85-01137	1803	2A	W85-01221	1803	3A	W85-01305	1803	5C
W85-01054	1802	2J	W85-01138	1803	2J	W85-01222	1803	3A	W85-01306	1803	5G
W85-01055	1802	2G	W85-01139	1803	2B	W85-01223	1803	5D	W85-01307	1803	6E
W85-01056	1802	5A	W85-01140	1803	6B	W85-01224	1803	3A	W85-01308	1803	6E
W85-01057	1802	3F	W85-01141	1803	8C	W85-01225	1803	5D	W85-01309	1803	6E
W85-01058	1802	3F	W85-01142	1803	8A	W85-01226	1803	3A	W85-01310	1803	5B
W85-01059	1802	2D	W85-01143	1803	8D	W85-01227	1803	2J	W85-01311	1803	5C
W85-01060	1802	2D	W85-01144	1803	8D	W85-01228	1803	5D	W85-01312	1803	5C
W85-01061	1802	3F	W85-01145	1803	8D	W85-01229	1803	2J	W85-01313	1803	5D
W85-01062	1802	7B	W85-01146	1803	8A	W85-01230	1803	2A	W85-01314	1803	5F
W85-01063	1802	2D	W85-01147	1803	8B	W85-01231	1803	2E	W85-01315	1803	5F
W85-01064	1802	2B	W85-01148	1803	8H	W85-01232	1803	5D	W85-01316	1803	6C
W85-01065	1802	2D	W85-01149	1803	8A	W85-01233	1803	7B	W85-01317	1803	7C
W85-01066	1802	2B	W85-01150	1803	5A	W85-01234	1803	3F	W85-01318	1803	5E
W85-01067	1802	2B	W85-01151	1803	5A	W85-01235	1803	2B	W85-01319	1803	5A
W85-01068	1802	2B	W85-01152	1803	2G	W85-01236	1803	2D	W85-01320	1803	4D
W85-01069	1802	7B	W85-01153	1803	2B	W85-01237	1803	2E	W85-01321	1803	2L
W85-01070	1802	2D	W85-01154	1803	2I	W85-01238	1803	2H	W85-01322	1803	4A
W85-01071	1802	2G	W85-01155	1803	5B	W85-01239	1803	7B	W85-01323	1803	7B
W85-01072	1802	2G	W85-01156	1803	2J	W85-01240	1803	2L	W85-01324	1803	5G
W85-01073	1802	2I	W85-01157	1803	5C	W85-01241	1803	6D	W85-01325	1803	5C
W85-01074	1802	7B	W85-01158	1803	6G	W85-01242	1803	6E	W85-01326	1803	2G
W85-01075	1802	2G	W85-01159	1803	7B	W85-01243	1803	6E	W85-01327	1803	2G
W85-01076	1802	3F	W85-01160	1803	5D	W85-01244	1803	6E	W85-01328	1803	2H
W85-01077	1802	5A	W85-01161	1803	5D	W85-01245	1803	6E	W85-01329	1803	2H
W85-01078	1802	5A	W85-01162	1803	5C	W85-01246	1803	6E	W85-01330	1803	2H
W85-01079	1802	2H	W85-01163	1803	5C	W85-01247	1803	6E	W85-01331	1803	2L
W85-01080	1802	2L	W85-01164	1803	2J	W85-01248	1803	6E	W85-01332	1803	2L
W85-01081	1802	2L	W85-01165	1803	2	W85-01249	1803	6E	W85-01333	1803	2L
W85-01082	1802	5C	W85-01166	1803	2B	W85-01250	1803	6E	W85-01334	1803	2K
W85-01083	1802	5C	W85-01167	1803	2E	W85-01251	1803	6E	W85-01335	1803	8G
W85-01084	1802	5B	W85-01168	1803	2E	W85-01252	1803	6E	W85-01336	1803	5G
W85-01085	1802	2H	W85-01169	1803	2E	W85-01253	1803	6E	W85-01337	1803	6B
W85-01086	1802	5B	W85-01170	1803	2E	W85-01254	1803	4A	W85-01338	1803	3B
W85-01087	1802	2K	W85-01171	1803	2E	W85-01255	1803	4A	W85-01339	1803	3D
W85-01088	1802	5A	W85-01172	1803	2E	W85-01256	1803	7B	W85-01340	1803	5F
W85-01089	1802	5A	W85-01173	1803	5B	W85-01257	1803	8C	W85-01341	1803	2G
W85-01090	1802	5B	W85-01174	1803	2F	W85-01258	1803	8A	W85-01342	1803	2E
W85-01091	1802	5C	W85-01175	1803	2F	W85-01259	1803	8C	W85-01343	1803	2G
W85-01092	1802	5C	W85-01176	1803	5C	W85-01260	1803	4A	W85-01344	1803	2E

## ACCESSION NUMBER INDEX

W85-01680

W85-01345	1803	2G	W85-01429	1803	2H	W85-01513	1803	4B	W85-01597	1803	2H
W85-01346	1803	2G	W85-01430	1803	5G	W85-01514	1803	8B	W85-01598	1803	2H
W85-01347	1803	2A	W85-01431	1803	5D	W85-01515	1803	8A	W85-01599	1803	2L
W85-01348	1803	2K	W85-01432	1803	5D	W85-01516	1803	2D	W85-01600	1803	2H
W85-01349	1803	5B	W85-01433	1803	5D	W85-01517	1803	8B	W85-01601	1803	2H
W85-01350	1803	5C	W85-01434	1803	5G	W85-01518	1803	5B	W85-01602	1803	2H
W85-01351	1803	5C	W85-01435	1803	5G	W85-01519	1803	8B	W85-01603	1803	2H
W85-01352	1803	5C	W85-01436	1803	5B	W85-01520	1803	8C	W85-01604	1803	5D
W85-01353	1803	5B	W85-01437	1803	2H	W85-01521	1803	8A	W85-01605	1803	5D
W85-01354	1803	5A	W85-01438	1803	5B	W85-01522	1803	5F	W85-01606	1803	2E
W85-01355	1803	5C	W85-01439	1803	6A	W85-01523	1803	8B	W85-01607	1803	5A
W85-01356	1803	2H	W85-01440	1803	4C	W85-01524	1803	5G	W85-01608	1803	5A
W85-01357	1803	2H	W85-01441	1803	5B	W85-01525	1803	5F	W85-01609	1803	2H
W85-01358	1803	5A	W85-01442	1803	5B	W85-01526	1803	5D	W85-01610	1803	2H
W85-01359	1803	5B	W85-01443	1803	5B	W85-01527	1803	2F	W85-01611	1803	2E
W85-01360	1803	5D	W85-01444	1803	5C	W85-01528	1803	2K	W85-01612	1803	2J
W85-01361	1803	5D	W85-01445	1803	5A	W85-01529	1803	5B	W85-01613	1803	2D
W85-01362	1803	8A	W85-01446	1803	5A	W85-01530	1803	2F	W85-01614	1803	2G
W85-01363	1803	8A	W85-01447	1803	5G	W85-01531	1803	5B	W85-01615	1803	2A
W85-01364	1803	8A	W85-01448	1803	5C	W85-01532	1803	5B	W85-01616	1803	2F
W85-01365	1803	5C	W85-01449	1803	5C	W85-01533	1803	5A	W85-01617	1803	2F
W85-01366	1803	5B	W85-01450	1803	5A	W85-01534	1803	2F	W85-01618	1803	2F
W85-01367	1803	5C	W85-01451	1803	5C	W85-01535	1803	2J	W85-01619	1803	2H
W85-01368	1803	5B	W85-01452	1803	5B	W85-01536	1803	2J	W85-01620	1803	5D
W85-01369	1803	5C	W85-01453	1803	2H	W85-01537	1803	5F	W85-01621	1803	5G
W85-01370	1803	5C	W85-01454	1803	5C	W85-01538	1803	5D	W85-01622	1803	5F
W85-01371	1803	6G	W85-01455	1803	5C	W85-01539	1803	8C	W85-01623	1803	6G
W85-01372	1803	2H	W85-01456	1803	5A	W85-01540	1803	5B	W85-01624	1803	5C
W85-01373	1803	2A	W85-01457	1803	5C	W85-01541	1803	3B	W85-01625	1803	2L
W85-01374	1803	5F	W85-01458	1803	5B	W85-01542	1803	2B	W85-01626	1803	5C
W85-01375	1803	4C	W85-01459	1803	3F	W85-01543	1803	8A	W85-01627	1803	5C
W85-01376	1803	5F	W85-01460	1803	3E	W85-01544	1803	8E	W85-01628	1803	5C
W85-01377	1803	2E	W85-01461	1803	2H	W85-01545	1803	8A	W85-01629	1803	5C
W85-01378	1803	8A	W85-01462	1803	2H	W85-01546	1803	8A	W85-01630	1803	2H
W85-01379	1803	5C	W85-01463	1803	2L	W85-01547	1803	6A	W85-01631	1803	2H
W85-01380	1803	7B	W85-01464	1803	2B	W85-01548	1803	6A	W85-01632	1804	5C
W85-01381	1803	5E	W85-01465	1803	5B	W85-01549	1803	8A	W85-01633	1804	5B
W85-01382	1803	5D	W85-01466	1803	2B	W85-01550	1803	2E	W85-01634	1804	5B
W85-01383	1803	2H	W85-01467	1803	5B	W85-01551	1803	8A	W85-01635	1804	5B
W85-01384	1803	2G	W85-01468	1803	2H	W85-01552	1803	8A	W85-01636	1804	2E
W85-01385	1803	5C	W85-01469	1803	5C	W85-01553	1803	8C	W85-01637	1804	2H
W85-01386	1803	5B	W85-01470	1803	5C	W85-01554	1803	8C	W85-01638	1804	2H
W85-01387	1803	6A	W85-01471	1803	5C	W85-01555	1803	5C	W85-01639	1804	5B
W85-01388	1803	5G	W85-01472	1803	2H	W85-01556	1803	2L	W85-01640	1804	5C
W85-01389	1803	6E	W85-01473	1803	5G	W85-01557	1803	2E	W85-01641	1804	2L
W85-01390	1803	6F	W85-01474	1803	5C	W85-01558	1803	5B	W85-01642	1804	2B
W85-01391	1803	5A	W85-01475	1803	5D	W85-01559	1803	2C	W85-01643	1804	2E
W85-01392	1803	5G	W85-01476	1803	6G	W85-01560	1803	2H	W85-01644	1804	5B
W85-01393	1803	5B	W85-01477	1803	2H	W85-01561	1803	6G	W85-01645	1804	2H
W85-01394	1803	6B	W85-01478	1803	2H	W85-01562	1803	2E	W85-01646	1804	2I
W85-01395	1803	5B	W85-01479	1803	2H	W85-01563	1803	2C	W85-01647	1804	2H
W85-01396	1803	5B	W85-01480	1803	5C	W85-01564	1803	5D	W85-01648	1804	2H
W85-01397	1803	5B	W85-01481	1803	2H	W85-01565	1803	6G	W85-01649	1804	5F
W85-01398	1803	2L	W85-01482	1803	2H	W85-01566	1803	6A	W85-01650	1804	5B
W85-01399	1803	5G	W85-01483	1803	6G	W85-01567	1803	6A	W85-01651	1804	2H
W85-01400	1803	6E	W85-01484	1803	5B	W85-01568	1803	2F	W85-01652	1804	5D
W85-01401	1803	5A	W85-01485	1803	5B	W85-01569	1803	6A	W85-01653	1804	5D
W85-01402	1803	5G	W85-01486	1803	5A	W85-01570	1803	6B	W85-01654	1804	5D
W85-01403	1803	5B	W85-01487	1803	5B	W85-01571	1803	6B	W85-01655	1804	5D
W85-01404	1803	5D	W85-01488	1803	2H	W85-01572	1803	3D	W85-01656	1804	5D
W85-01405	1803	5D	W85-01489	1803	5C	W85-01573	1803	2E	W85-01657	1804	5D
W85-01406	1803	7A	W85-01490	1803	5B	W85-01574	1803	6A	W85-01658	1804	5D
W85-01407	1803	5A	W85-01491	1803	5C	W85-01575	1803	6E	W85-01659	1804	5D
W85-01408	1803	7B	W85-01492	1803	2H	W85-01576	1803	2G	W85-01660	1804	5D
W85-01409	1803	5D	W85-01493	1803	2H	W85-01577	1803	2F	W85-01661	1804	5A
W85-01410	1803	5A	W85-01494	1803	5C	W85-01578	1803	2E	W85-01662	1804	1B
W85-01411	1803	5B	W85-01495	1803	5C	W85-01579	1803	3D	W85-01663	1804	5A
W85-01412	1803	2L	W85-01496	1803	6G	W85-01580	1803	6B	W85-01664	1804	5F
W85-01413	1803	5B	W85-01497	1803	5C	W85-01581	1803	5F	W85-01665	1804	5C
W85-01414	1803	5G	W85-01498	1803	6G	W85-01582	1803	5D	W85-01666	1804	5C
W85-01415	1803	5G	W85-01499	1803	2A	W85-01583	1803	5D	W85-01667	1804	6E
W85-01416	1803	5G	W85-01500	1803	6E	W85-01584	1803	4A	W85-01668	1804	6E
W85-01417	1803	3C	W85-01501	1803	2J	W85-01585	1803	2H	W85-01669	1804	6E
W85-01418	1803	5G	W85-01502	1803	8B	W85-01586	1803	2H	W85-01670	1804	6E
W85-01419	1803	5G	W85-01503	1803	2J	W85-01587	1803	2H	W85-01671	1804	5C
W85-01420	1803	5B	W85-01504	1803	8C	W85-01588	1803	2H	W85-01672	1804	2H
W85-01421	1803	5B	W85-01505	1803	8A	W85-01589	1803	5C	W85-01673	1804	2F
W85-01422	1803	5G	W85-01506	1803	8A	W85-01590	1803	2H	W85-01674	1804	5C
W85-01423	1803	6G	W85-01507	1803	2D	W85-01591	1803	2H	W85-01675	1804	5B
W85-01424	1803	5G	W85-01508	1803	3F	W85-01592	1803	5C	W85-01676	1804	5B
W85-01425	1803	5A	W85-01509	1803	8A	W85-01593	1803	2H	W85-01677	1804	2B
W85-01426	1803	6A	W85-01510	1803	3F	W85-01594	1803	2L	W85-01678	1804	2B
W85-01427	1803	5G	W85-01511	1803	3F	W85-01595	1803	2J	W85-01679	1804	2B
W85-01428	1803	2H	W85-01512	1803	2G	W85-01596	1803	5A	W85-01680	1804	2B

## ACCESSION NUMBER INDEX

W85-01681

W85-01681	1804	2B	W85-01765	1804	6G	W85-01849	1804	5D	W85-01933	1804	2E
W85-01682	1804	2B	W85-01766	1804	2L	W85-01850	1804	6B	W85-01934	1804	2E
W85-01683	1804	2B	W85-01767	1804	2L	W85-01851	1804	5D	W85-01935	1804	2E
W85-01684	1804	2B	W85-01768	1804	7C	W85-01852	1804	5D	W85-01936	1804	2E
W85-01685	1804	2B	W85-01769	1804	2J	W85-01853	1804	5F	W85-01937	1804	2E
W85-01686	1804	2B	W85-01770	1804	5B	W85-01854	1804	5D	W85-01938	1804	2E
W85-01687	1804	2B	W85-01771	1804	2F	W85-01855	1804	4A	W85-01939	1804	2E
W85-01688	1804	2B	W85-01772	1804	2F	W85-01856	1804	5B	W85-01940	1804	7C
W85-01689	1804	2E	W85-01773	1804	4A	W85-01857	1804	8A	W85-01941	1804	7C
W85-01690	1804	2B	W85-01774	1804	2F	W85-01858	1804	8C	W85-01942	1804	5A
W85-01691	1804	2B	W85-01775	1804	2F	W85-01859	1804	4A	W85-01943	1804	4C
W85-01692	1804	2E	W85-01776	1804	2F	W85-01860	1804	8A	W85-01944	1804	7C
W85-01693	1804	2B	W85-01777	1804	2A	W85-01861	1804	8F	W85-01945	1804	4B
W85-01694	1804	2E	W85-01778	1804	2K	W85-01862	1804	8A	W85-01946	1804	5B
W85-01695	1804	2E	W85-01779	1804	2F	W85-01863	1804	4D	W85-01947	1804	5B
W85-01696	1804	2B	W85-01780	1804	2F	W85-01864	1804	8C	W85-01948	1804	4A
W85-01697	1804	2E	W85-01781	1804	2E	W85-01865	1804	5C	W85-01949	1804	2A
W85-01698	1804	2E	W85-01782	1804	2E	W85-01866	1804	8A	W85-01950	1804	2F
W85-01699	1804	2E	W85-01783	1804	2E	W85-01867	1804	5E	W85-01951	1804	5B
W85-01700	1804	2B	W85-01784	1804	2F	W85-01868	1804	5B	W85-01952	1804	3F
W85-01701	1804	2B	W85-01785	1804	2F	W85-01869	1804	5D	W85-01953	1804	5C
W85-01702	1804	2L	W85-01786	1804	2A	W85-01870	1804	8A	W85-01954	1804	5A
W85-01703	1804	2J	W85-01787	1804	7C	W85-01871	1804	8D	W85-01955	1804	5A
W85-01704	1804	6A	W85-01788	1804	2J	W85-01872	1804	8A	W85-01956	1804	5B
W85-01705	1804	2J	W85-01789	1804	5E	W85-01873	1804	5F	W85-01957	1804	5B
W85-01706	1804	5D	W85-01790	1804	7C	W85-01874	1804	4A	W85-01958	1804	5A
W85-01707	1804	2J	W85-01791	1804	2F	W85-01875	1804	5G	W85-01959	1804	5B
W85-01708	1804	5B	W85-01792	1804	6G	W85-01876	1804	5F	W85-01960	1804	5A
W85-01709	1804	7C	W85-01793	1804	5B	W85-01877	1804	5F	W85-01961	1804	5B
W85-01710	1804	5B	W85-01794	1804	5B	W85-01878	1804	5D	W85-01962	1804	5A
W85-01711	1804	5B	W85-01795	1804	5B	W85-01879	1804	7C	W85-01963	1804	5E
W85-01712	1804	2B	W85-01796	1804	5F	W85-01880	1804	3D	W85-01964	1804	2K
W85-01713	1804	2C	W85-01797	1804	5C	W85-01881	1804	5D	W85-01965	1804	2K
W85-01714	1804	8F	W85-01798	1804	5D	W85-01882	1804	5D	W85-01966	1804	5C
W85-01715	1804	8B	W85-01799	1804	4C	W85-01883	1804	4D	W85-01967	1804	5C
W85-01716	1804	5D	W85-01800	1804	6E	W85-01884	1804	5D	W85-01968	1804	5D
W85-01717	1804	5D	W85-01801	1804	4B	W85-01885	1804	5D	W85-01969	1804	5F
W85-01718	1804	5B	W85-01802	1804	6E	W85-01886	1804	2A	W85-01970	1804	5D
W85-01719	1804	5D	W85-01803	1804	5C	W85-01887	1804	2H	W85-01971	1804	5D
W85-01720	1804	5G	W85-01804	1804	2K	W85-01888	1804	5C	W85-01972	1804	2C
W85-01721	1804	5D	W85-01805	1804	5B	W85-01889	1804	5C	W85-01973	1804	2E
W85-01722	1804	5D	W85-01806	1804	6E	W85-01890	1804	2L	W85-01974	1804	5F
W85-01723	1804	5C	W85-01807	1804	5C	W85-01891	1804	2H	W85-01975	1804	5D
W85-01724	1804	5D	W85-01808	1804	5C	W85-01892	1804	2I	W85-01976	1804	5D
W85-01725	1804	5B	W85-01809	1804	2L	W85-01893	1804	5C	W85-01977	1804	5D
W85-01726	1804	5F	W85-01810	1804	5C	W85-01894	1804	5A	W85-01978	1804	5D
W85-01727	1804	5B	W85-01811	1804	5A	W85-01895	1804	6G	W85-01979	1804	5G
W85-01728	1804	5F	W85-01812	1804	2H	W85-01896	1804	5C	W85-01980	1804	7C
W85-01729	1804	5A	W85-01813	1804	5D	W85-01897	1804	5B	W85-01981	1804	5F
W85-01730	1804	5D	W85-01814	1804	5B	W85-01898	1804	5C	W85-01982	1804	3D
W85-01731	1804	5C	W85-01815	1804	5D	W85-01899	1804	5A	W85-01983	1804	5F
W85-01732	1804	5D	W85-01816	1804	8B	W85-01900	1804	5C	W85-01984	1804	6B
W85-01733	1804	2F	W85-01817	1804	3F	W85-01901	1804	5A	W85-01985	1804	5F
W85-01734	1804	2J	W85-01818	1804	2F	W85-01902	1804	5F	W85-01986	1804	5F
W85-01735	1804	2J	W85-01819	1804	2F	W85-01903	1804	8A	W85-01987	1804	5F
W85-01736	1804	5D	W85-01820	1804	4A	W85-01904	1804	5F	W85-01988	1804	5F
W85-01737	1804	5D	W85-01821	1804	8A	W85-01905	1804	8C	W85-01989	1804	6F
W85-01738	1804	5B	W85-01822	1804	5B	W85-01906	1804	5F	W85-01990	1804	5G
W85-01739	1804	5D	W85-01823	1804	2J	W85-01907	1804	5F	W85-01991	1804	8A
W85-01740	1804	5D	W85-01824	1804	2F	W85-01908	1804	5F	W85-01992	1804	8G
W85-01741	1804	5D	W85-01825	1804	10C	W85-01909	1804	5F	W85-01993	1804	5F
W85-01742	1804	5B	W85-01826	1804	7C	W85-01910	1804	5F	W85-01994	1804	8G
W85-01743	1804	5A	W85-01827	1804	7B	W85-01911	1804	5F	W85-01995	1804	5F
W85-01744	1804	5B	W85-01828	1804	2F	W85-01912	1804	2L	W85-01996	1804	6B
W85-01745	1804	1A	W85-01829	1804	9D	W85-01913	1804	2L	W85-01997	1804	2G
W85-01746	1804	5A	W85-01830	1804	3A	W85-01914	1804	5B	W85-01998	1804	6B
W85-01747	1804	5A	W85-01831	1804	6B	W85-01915	1804	5B	W85-01999	1804	8A
W85-01748	1804	5A	W85-01832	1804	3B	W85-01916	1804	2H	W85-02000	1804	8G
W85-01749	1804	5F	W85-01833	1804	2H	W85-01917	1804	5B	W85-02001	1804	5F
W85-01750	1804	5B	W85-01834	1804	5B	W85-01918	1804	5A	W85-02002	1804	6D
W85-01751	1804	5B	W85-01835	1804	2J	W85-01919	1804	5C	W85-02003	1804	8A
W85-01752	1804	2H	W85-01836	1804	5B	W85-01920	1804	6G	W85-02004	1804	5F
W85-01753	1804	5C	W85-01837	1804	5B	W85-01921	1804	6G	W85-02005	1804	5F
W85-01754	1804	5B	W85-01838	1804	2L	W85-01922	1804	5F	W85-02006	1804	6A
W85-01755	1804	2H	W85-01839	1804	2L	W85-01923	1804	2E	W85-02007	1804	5G
W85-01756	1804	2H	W85-01840	1804	5C	W85-01924	1804	2A	W85-02008	1804	6A
W85-01757	1804	2H	W85-01841	1804	5B	W85-01925	1804	7C	W85-02009	1804	6A
W85-01758	1804	2H	W85-01842	1804	7B	W85-01926	1804	7C	W85-02010	1804	5F
W85-01759	1804	5B	W85-01843	1804	2L	W85-01927	1804	2E	W85-02011	1804	7B
W85-01760	1804	7B	W85-01844	1804	5C	W85-01928	1804	7C	W85-02012	1804	5F
W85-01761	1804	2H	W85-01845	1804	5C	W85-01929	1804	7C	W85-02013	1804	5F
W85-01762	1804	5B	W85-01846	1804	5C	W85-01930	1804	7C	W85-02014	1804	5F
W85-01763	1804	2H	W85-01847	1804	5B	W85-01931	1804	2E	W85-02015	1804	5B
W85-01764	1804	6G	W85-01848	1804	5B	W85-01932	1804	2E	W85-02016	1804	3D

## ACCESSION NUMBER INDEX

W85-02352

W85-02017	1804	6A	W85-02101	1804	4A	W85-02185	1805	5B	W85-02269	1805	2A
W85-02018	1804	3B	W85-02102	1804	2H	W85-02186	1805	5B	W85-02270	1805	2L
W85-02019	1804	5F	W85-02103	1804	2E	W85-02187	1805	5F	W85-02271	1805	8B
W85-02020	1804	5D	W85-02104	1804	5A	W85-02188	1805	5F	W85-02272	1805	5G
W85-02021	1804	5F	W85-02105	1804	5F	W85-02189	1805	5B	W85-02273	1805	8F
W85-02022	1804	5F	W85-02106	1804	5D	W85-02190	1805	5B	W85-02274	1805	5F
W85-02023	1804	5D	W85-02107	1804	6B	W85-02191	1805	5B	W85-02275	1805	5B
W85-02024	1804	5F	W85-02108	1804	5B	W85-02192	1805	5E	W85-02276	1805	5B
W85-02025	1804	5B	W85-02109	1804	5B	W85-02193	1805	5C	W85-02277	1805	5B
W85-02026	1804	2F	W85-02110	1804	5C	W85-02194	1805	5C	W85-02278	1805	5D
W85-02027	1804	2F	W85-02111	1804	2I	W85-02195	1805	5C	W85-02279	1805	2H
W85-02028	1804	6D	W85-02112	1804	4C	W85-02196	1805	5C	W85-02280	1805	5C
W85-02029	1804	2F	W85-02113	1804	5A	W85-02197	1805	5C	W85-02281	1805	5F
W85-02030	1804	7B	W85-02114	1804	5A	W85-02198	1805	5C	W85-02282	1805	2H
W85-02031	1804	7C	W85-02115	1804	5A	W85-02199	1805	5B	W85-02283	1805	2H
W85-02032	1804	9B	W85-02116	1804	5C	W85-02200	1805	5B	W85-02284	1805	5G
W85-02033	1804	10C	W85-02117	1804	5A	W85-02201	1805	5D	W85-02285	1805	5A
W85-02034	1804	7C	W85-02118	1804	5B	W85-02202	1805	5A	W85-02286	1805	2H
W85-02035	1804	2A	W85-02119	1804	5F	W85-02203	1805	5C	W85-02287	1805	2H
W85-02036	1804	7C	W85-02120	1804	5B	W85-02204	1805	5A	W85-02288	1805	2H
W85-02037	1804	2E	W85-02121	1804	5F	W85-02205	1805	5C	W85-02289	1805	5B
W85-02038	1804	4B	W85-02122	1804	4A	W85-02206	1805	5C	W85-02290	1805	5B
W85-02039	1804	2F	W85-02123	1804	7B	W85-02207	1805	5C	W85-02291	1805	5B
W85-02040	1804	5B	W85-02124	1804	5C	W85-02208	1805	5B	W85-02292	1805	2J
W85-02041	1804	5B	W85-02125	1804	2B	W85-02209	1805	5D	W85-02293	1805	5B
W85-02042	1804	2H	W85-02126	1804	2I	W85-02210	1805	5D	W85-02294	1805	2L
W85-02043	1804	7C	W85-02127	1804	2I	W85-02211	1805	5C	W85-02295	1805	2L
W85-02044	1804	2A	W85-02128	1804	4A	W85-02212	1805	5A	W85-02296	1805	5C
W85-02045	1804	2J	W85-02129	1804	5B	W85-02213	1805	5B	W85-02297	1805	4A
W85-02046	1804	7C	W85-02130	1804	6A	W85-02214	1805	5B	W85-02298	1805	5C
W85-02047	1804	4A	W85-02131	1804	5F	W85-02215	1805	2H	W85-02299	1805	5E
W85-02048	1804	2E	W85-02132	1804	5B	W85-02216	1805	5B	W85-02300	1805	5E
W85-02049	1804	7C	W85-02133	1804	5F	W85-02217	1805	5G	W85-02301	1805	5D
W85-02050	1804	7C	W85-02134	1804	2H	W85-02218	1805	5C	W85-02302	1805	5E
W85-02051	1804	2E	W85-02135	1804	2L	W85-02219	1805	2H	W85-02303	1805	5A
W85-02052	1804	2F	W85-02136	1804	5F	W85-02220	1805	2H	W85-02304	1805	7B
W85-02053	1804	2E	W85-02137	1804	5A	W85-02221	1805	2H	W85-02305	1805	5A
W85-02054	1804	2J	W85-02138	1804	2L	W85-02222	1805	2H	W85-02306	1805	7B
W85-02055	1804	2J	W85-02139	1804	5D	W85-02223	1805	2H	W85-02307	1805	5A
W85-02056	1804	2H	W85-02140	1804	5F	W85-02224	1805	2H	W85-02308	1805	7B
W85-02057	1804	2J	W85-02141	1804	4B	W85-02225	1805	5D	W85-02309	1805	5A
W85-02058	1804	2J	W85-02142	1804	3F	W85-02226	1805	5D	W85-02310	1805	5A
W85-02059	1804	2H	W85-02143	1804	3F	W85-02227	1805	5G	W85-02311	1805	5A
W85-02060	1804	6G	W85-02144	1804	6A	W85-02228	1805	8E	W85-02312	1805	7B
W85-02061	1804	2K	W85-02145	1804	6F	W85-02229	1805	4B	W85-02313	1805	5F
W85-02062	1804	5B	W85-02146	1804	6A	W85-02230	1805	8A	W85-02314	1805	5A
W85-02063	1804	5B	W85-02147	1804	4A	W85-02231	1805	8D	W85-02315	1805	7B
W85-02064	1804	2J	W85-02148	1804	2F	W85-02232	1805	8G	W85-02316	1805	7B
W85-02065	1804	5B	W85-02149	1804	2H	W85-02233	1805	6B	W85-02317	1805	2G
W85-02066	1804	2H	W85-02150	1804	2F	W85-02234	1805	2H	W85-02318	1805	2G
W85-02067	1804	2H	W85-02151	1804	2E	W85-02235	1805	5C	W85-02319	1805	2G
W85-02068	1804	5B	W85-02152	1804	5B	W85-02236	1805	5B	W85-02320	1805	2G
W85-02069	1804	2E	W85-02153	1804	2F	W85-02237	1805	5E	W85-02321	1805	2G
W85-02070	1804	2H	W85-02154	1804	2F	W85-02238	1805	5A	W85-02322	1805	2J
W85-02071	1804	2J	W85-02155	1804	3F	W85-02239	1805	5C	W85-02323	1805	2J
W85-02072	1804	2H	W85-02156	1804	2E	W85-02240	1805	2H	W85-02324	1805	5C
W85-02073	1804	2H	W85-02157	1804	2F	W85-02241	1805	2H	W85-02325	1805	5C
W85-02074	1804	2E	W85-02158	1804	2A	W85-02242	1805	2L	W85-02326	1805	5B
W85-02075	1804	2H	W85-02159	1804	2E	W85-02243	1805	5C	W85-02327	1805	5C
W85-02076	1804	2J	W85-02160	1804	2G	W85-02244	1805	5F	W85-02328	1805	2H
W85-02077	1804	5B	W85-02161	1804	2A	W85-02245	1805	5A	W85-02329	1805	5B
W85-02078	1804	5B	W85-02162	1804	1B	W85-02246	1805	5C	W85-02330	1805	2E
W85-02079	1804	2H	W85-02163	1804	2F	W85-02247	1805	2H	W85-02331	1805	2I
W85-02080	1804	5B	W85-02164	1804	2F	W85-02248	1805	2H	W85-02332	1805	2I
W85-02081	1804	2H	W85-02165	1804	2F	W85-02249	1805	2H	W85-02333	1805	2I
W85-02082	1804	2H	W85-02166	1804	2E	W85-02250	1805	6G	W85-02334	1805	2I
W85-02083	1804	5B	W85-02167	1804	2G	W85-02251	1805	2K	W85-02335	1805	2I
W85-02084	1804	2H	W85-02168	1804	2E	W85-02252	1805	2F	W85-02336	1805	2I
W85-02085	1804	2H	W85-02169	1804	2F	W85-02253	1805	2L	W85-02337	1805	2I
W85-02086	1804	2H	W85-02170	1804	5B	W85-02254	1805	2H	W85-02338	1805	2I
W85-02087	1804	2H	W85-02171	1804	5B	W85-02255	1805	5A	W85-02339	1805	2H
W85-02088	1804	2E	W85-02172	1805	6E	W85-02256	1805	2F	W85-02340	1805	5C
W85-02090	1804	2K	W85-02173	1805	6E	W85-02257	1805	8D	W85-02341	1805	2I
W85-02091	1804	5B	W85-02174	1805	6E	W85-02258	1805	8D	W85-02342	1805	2I
W85-02092	1804	2H	W85-02175	1805	6E	W85-02259	1805	8D	W85-02343	1805	5C
W85-02093	1804	2H	W85-02176	1805	6E	W85-02260	1805	2F	W85-02344	1805	5B
W85-02094	1804	2H	W85-02177	1805	6E	W85-02261	1805	5G	W85-02345	1805	5B
W85-02095	1804	5B	W85-02178	1805	6E	W85-02262	1805	8E	W85-02346	1805	5B
W85-02096	1804	5G	W85-02179	1805	6E	W85-02263	1805	2J	W85-02347	1805	5C
W85-02097	1804	5G	W85-02180	1805	6E	W85-02264	1805	8B	W85-02348	1805	5C
W85-02098	1804	5B	W85-02181	1805	5C	W85-02265	1805	2J	W85-02349	1805	5B
W85-02099	1804	2H	W85-02182	1805	6E	W85-02266	1805	8B	W85-02350	1805	5B
W85-02100	1804	2J	W85-02183	1805	6D	W85-02267	1805	6F	W85-02351	1805	5D
			W85-02184	1805	4B	W85-02268	1805	8A	W85-02352	1805	7B

## ACCESSION NUMBER INDEX

W85-02353

W85-02353	1805	2E	W85-02437	1805	5B	W85-02521	1805	5B	W85-02605	1805	2H
W85-02354	1805	2A	W85-02438	1805	5D	W85-02522	1805	2H	W85-02606	1805	2H
W85-02355	1805	4A	W85-02439	1805	5A	W85-02523	1805	5B	W85-02607	1805	2H
W85-02356	1805	8B	W85-02440	1805	5A	W85-02524	1805	2E	W85-02608	1805	2H
W85-02357	1805	2F	W85-02441	1805	5A	W85-02525	1805	5C	W85-02609	1805	2H
W85-02358	1805	8I	W85-02442	1805	6C	W85-02526	1805	7B	W85-02610	1805	2H
W85-02359	1805	8D	W85-02443	1805	8B	W85-02527	1805	2H	W85-02611	1805	2H
W85-02360	1805	4A	W85-02444	1805	8B	W85-02528	1805	2H	W85-02612	1805	2H
W85-02361	1805	6C	W85-02445	1805	2D	W85-02529	1805	2H	W85-02613	1805	5B
W85-02362	1805	6A	W85-02446	1805	2F	W85-02530	1805	2J	W85-02614	1805	2H
W85-02363	1805	2F	W85-02447	1805	2D	W85-02531	1805	2L	W85-02615	1805	5A
W85-02364	1805	2G	W85-02448	1805	8A	W85-02532	1805	2L	W85-02616	1805	2H
W85-02365	1805	2G	W85-02449	1805	4D	W85-02533	1805	5C	W85-02617	1805	2H
W85-02366	1805	2G	W85-02450	1805	8B	W85-02534	1805	5B	W85-02618	1805	5C
W85-02367	1805	2F	W85-02451	1805	8I	W85-02535	1805	2L	W85-02619	1805	5C
W85-02368	1805	2G	W85-02452	1805	8B	W85-02536	1805	5C	W85-02620	1805	2H
W85-02369	1805	2G	W85-02453	1805	7B	W85-02537	1805	5C	W85-02621	1805	2H
W85-02370	1805	2A	W85-02454	1805	8C	W85-02538	1805	5C	W85-02622	1805	2H
W85-02371	1805	2F	W85-02455	1805	2J	W85-02539	1805	5C	W85-02623	1805	5C
W85-02372	1805	2E	W85-02456	1805	2E	W85-02540	1805	5C	W85-02624	1805	5C
W85-02373	1805	5G	W85-02457	1805	2L	W85-02541	1805	5A	W85-02625	1805	5C
W85-02374	1805	5C	W85-02458	1805	2A	W85-02542	1805	5C	W85-02626	1805	5G
W85-02375	1805	6G	W85-02459	1805	2A	W85-02543	1805	5C	W85-02627	1805	5B
W85-02376	1805	5C	W85-02460	1805	5B	W85-02544	1805	2B	W85-02628	1805	2K
W85-02377	1805	5C	W85-02461	1805	5B	W85-02545	1805	2E	W85-02629	1805	2K
W85-02378	1805	5C	W85-02462	1805	2F	W85-02546	1805	2H	W85-02630	1805	2H
W85-02379	1805	5C	W85-02463	1805	4B	W85-02547	1805	2E	W85-02631	1805	2H
W85-02380	1805	5C	W85-02464	1805	2F	W85-02548	1805	3F	W85-02632	1805	5B
W85-02381	1805	2L	W85-02465	1805	4B	W85-02549	1805	5G	W85-02633	1805	2H
W85-02382	1805	2L	W85-02466	1805	2B	W85-02550	1805	5D	W85-02634	1805	2K
W85-02383	1805	2H	W85-02467	1805	2J	W85-02551	1805	3A	W85-02635	1805	2H
W85-02384	1805	4C	W85-02468	1805	2K	W85-02552	1805	3A	W85-02636	1805	5C
W85-02385	1805	6G	W85-02469	1805	2E	W85-02553	1805	3A	W85-02637	1805	2H
W85-02386	1805	5G	W85-02470	1805	2L	W85-02554	1805	2J	W85-02638	1805	2H
W85-02387	1805	5G	W85-02471	1805	5B	W85-02555	1805	2J	W85-02639	1805	2H
W85-02388	1805	5C	W85-02472	1805	5B	W85-02556	1805	2E	W85-02640	1805	2H
W85-02389	1805	5F	W85-02473	1805	5B	W85-02557	1805	8B	W85-02641	1805	5C
W85-02390	1805	5B	W85-02474	1805	2A	W85-02558	1805	6D	W85-02642	1805	2H
W85-02391	1805	8B	W85-02475	1805	5C	W85-02559	1805	2E	W85-02643	1805	5C
W85-02392	1805	6B	W85-02476	1805	2H	W85-02560	1805	2K	W85-02644	1805	2H
W85-02393	1805	5D	W85-02477	1805	2H	W85-02561	1805	2D	W85-02645	1805	5G
W85-02394	1805	5B	W85-02478	1805	2H	W85-02562	1805	2E	W85-02646	1805	5C
W85-02395	1805	2J	W85-02479	1805	5C	W85-02563	1805	2H	W85-02647	1805	5C
W85-02396	1805	2L	W85-02480	1805	2H	W85-02564	1805	2H	W85-02648	1805	2H
W85-02397	1805	5B	W85-02481	1805	2H	W85-02565	1805	4A	W85-02649	1805	2H
W85-02398	1805	2L	W85-02482	1805	5C	W85-02566	1805	2H	W85-02650	1805	2H
W85-02399	1805	6E	W85-02483	1805	5C	W85-02567	1805	2H	W85-02651	1805	5C
W85-02400	1805	5F	W85-02484	1805	6G	W85-02568	1805	2H	W85-02652	1805	5C
W85-02401	1805	5D	W85-02485	1805	2L	W85-02569	1805	5C	W85-02653	1805	5C
W85-02402	1805	5B	W85-02486	1805	6B	W85-02570	1805	5A	W85-02654	1805	5B
W85-02403	1805	5F	W85-02487	1805	5D	W85-02571	1805	6E	W85-02655	1805	2L
W85-02404	1805	5G	W85-02488	1805	2F	W85-02572	1805	5D	W85-02656	1805	2L
W85-02405	1805	2H	W85-02489	1805	2F	W85-02573	1805	5D	W85-02657	1805	2L
W85-02406	1805	2H	W85-02490	1805	4B	W85-02574	1805	5D	W85-02658	1805	4A
W85-02407	1805	2H	W85-02491	1805	2F	W85-02575	1805	5E	W85-02659	1805	4A
W85-02408	1805	2H	W85-02492	1805	2E	W85-02576	1805	5D	W85-02660	1805	5B
W85-02409	1805	2H	W85-02493	1805	2E	W85-02577	1805	5E	W85-02661	1805	2K
W85-02410	1805	2H	W85-02494	1805	2A	W85-02578	1805	5D	W85-02662	1805	2F
W85-02411	1805	2G	W85-02495	1805	7B	W85-02579	1805	5D	W85-02663	1805	4B
W85-02412	1805	2J	W85-02496	1805	2A	W85-02580	1805	5F	W85-02664	1805	2F
W85-02413	1805	2K	W85-02497	1805	5C	W85-02581	1805	4A	W85-02665	1805	2A
W85-02414	1805	5B	W85-02498	1805	5C	W85-02582	1805	5D	W85-02666	1805	2F
W85-02415	1805	5C	W85-02499	1805	5C	W85-02583	1805	5G	W85-02667	1805	5B
W85-02416	1805	5B	W85-02500	1805	5C	W85-02584	1805	5A	W85-02668	1805	5B
W85-02417	1805	5C	W85-02501	1805	5B	W85-02585	1805	5D	W85-02669	1805	2F
W85-02418	1805	5C	W85-02502	1805	5B	W85-02586	1805	5D	W85-02670	1805	7B
W85-02419	1805	5C	W85-02503	1805	2H	W85-02587	1805	5D	W85-02671	1805	2E
W85-02420	1805	5C	W85-02504	1805	2E	W85-02588	1805	5B	W85-02672	1805	8A
W85-02421	1805	5C	W85-02505	1805	6G	W85-02589	1805	5C	W85-02673	1805	8A
W85-02422	1805	5C	W85-02506	1805	5F	W85-02590	1805	5D	W85-02674	1805	8C
W85-02423	1805	5C	W85-02507	1805	2H	W85-02591	1805	5C	W85-02675	1805	8A
W85-02424	1805	5B	W85-02508	1805	5B	W85-02592	1805	5C	W85-02676	1805	8C
W85-02425	1805	5D	W85-02509	1805	5C	W85-02593	1805	2K	W85-02677	1805	8C
W85-02426	1805	5C	W85-02510	1805	5C	W85-02594	1805	5F	W85-02678	1805	8C
W85-02427	1805	5C	W85-02511	1805	5C	W85-02595	1805	5A	W85-02679	1805	8A
W85-02428	1805	5C	W85-02512	1805	6G	W85-02596	1805	5F	W85-02680	1805	8A
W85-02429	1805	5A	W85-02513	1805	2E	W85-02597	1805	5F	W85-02681	1805	8C
W85-02430	1805	5A	W85-02514	1805	2K	W85-02598	1805	5A	W85-02682	1805	8D
W85-02431	1805	5B	W85-02515	1805	5B	W85-02599	1805	5A	W85-02683	1805	8A
W85-02432	1805	2I	W85-02516	1805	5B	W85-02600	1805	5B	W85-02684	1805	2F
W85-02433	1805	5A	W85-02517	1805	5B	W85-02601	1805	5B	W85-02685	1805	2F
W85-02434	1805	5A	W85-02518	1805	5G	W85-02602	1805	5G	W85-02686	1805	4B
W85-02435	1805	5G	W85-02519	1805	5G	W85-02603	1805	7B	W85-02687	1805	4C
W85-02436	1805	5A	W85-02520	1805	5B	W85-02604	1805	5B	W85-02688	1805	2H

## ACCESSION NUMBER INDEX

W85-03024

W85-02689	1805	2F	W85-02773	1806	5C	W85-02857	1806	2G	W85-02941	1806	5B
W85-02690	1805	4B	W85-02774	1806	2H	W85-02858	1806	5B	W85-02942	1806	5A
W85-02691	1805	2F	W85-02775	1806	5C	W85-02859	1806	5G	W85-02943	1806	5C
W85-02692	1805	5B	W85-02776	1806	5B	W85-02860	1806	5B	W85-02944	1806	5B
W85-02693	1805	5B	W85-02777	1806	5A	W85-02861	1806	5G	W85-02945	1806	5B
W85-02694	1805	4B	W85-02778	1806	5C	W85-02862	1806	2F	W85-02946	1806	5C
W85-02695	1805	4B	W85-02779	1806	5B	W85-02863	1806	5D	W85-02947	1806	8A
W85-02696	1806	5F	W85-02780	1806	5C	W85-02864	1806	5B	W85-02948	1806	8A
W85-02697	1806	5C	W85-02781	1806	5C	W85-02865	1806	5C	W85-02949	1806	2F
W85-02698	1806	5A	W85-02782	1806	5C	W85-02866	1806	2G	W85-02950	1806	8A
W85-02699	1806	5B	W85-02783	1806	5A	W85-02867	1806	2G	W85-02951	1806	5A
W85-02700	1806	5B	W85-02784	1806	5C	W85-02868	1806	2G	W85-02952	1806	8B
W85-02701	1806	5C	W85-02785	1806	5C	W85-02869	1806	2G	W85-02953	1806	2J
W85-02702	1806	5C	W85-02786	1806	2H	W85-02870	1806	2G	W85-02954	1806	2H
W85-02703	1806	5F	W85-02787	1806	2L	W85-02871	1806	2G	W85-02955	1806	5C
W85-02704	1806	5C	W85-02788	1806	2H	W85-02872	1806	2G	W85-02956	1806	5C
W85-02705	1806	5C	W85-02789	1806	2L	W85-02873	1806	2G	W85-02957	1806	3A
W85-02706	1806	5C	W85-02790	1806	2L	W85-02874	1806	2I	W85-02958	1806	5D
W85-02707	1806	5C	W85-02791	1806	2L	W85-02875	1806	2G	W85-02959	1806	5B
W85-02708	1806	5C	W85-02792	1806	2K	W85-02876	1806	2J	W85-02960	1806	2H
W85-02709	1806	5C	W85-02793	1806	2H	W85-02877	1806	2G	W85-02961	1806	2E
W85-02710	1806	5C	W85-02794	1806	2H	W85-02878	1806	5E	W85-02962	1806	2J
W85-02711	1806	5B	W85-02795	1806	5C	W85-02879	1806	2G	W85-02963	1806	2E
W85-02712	1806	5A	W85-02796	1806	5E	W85-02880	1806	2J	W85-02964	1806	2J
W85-02713	1806	5B	W85-02797	1806	2C	W85-02881	1806	6E	W85-02965	1806	5F
W85-02714	1806	5F	W85-02798	1806	5A	W85-02882	1806	6E	W85-02966	1806	5C
W85-02715	1806	5A	W85-02799	1806	4A	W85-02883	1806	2A	W85-02967	1806	5C
W85-02716	1806	2I	W85-02800	1806	4D	W85-02884	1806	2A	W85-02968	1806	5C
W85-02717	1806	5C	W85-02801	1806	2G	W85-02885	1806	5A	W85-02969	1806	5C
W85-02718	1806	5A	W85-02802	1806	3C	W85-02886	1806	5A	W85-02970	1806	5C
W85-02719	1806	5C	W85-02803	1806	5C	W85-02887	1806	5A	W85-02971	1806	5C
W85-02720	1806	5B	W85-02804	1806	5C	W85-02888	1806	5C	W85-02972	1806	5D
W85-02721	1806	5B	W85-02805	1806	5B	W85-02889	1806	5C	W85-02973	1806	7A
W85-02722	1806	5A	W85-02806	1806	5B	W85-02890	1806	2H	W85-02974	1806	6B
W85-02723	1806	5B	W85-02807	1806	5A	W85-02891	1806	2H	W85-02975	1806	5A
W85-02724	1806	5E	W85-02808	1806	5A	W85-02892	1806	2J	W85-02976	1806	5B
W85-02725	1806	5D	W85-02809	1806	5A	W85-02893	1806	2H	W85-02977	1806	5G
W85-02726	1806	5A	W85-02810	1806	5A	W85-02894	1806	2H	W85-02978	1806	3C
W85-02727	1806	5C	W85-02811	1806	5A	W85-02895	1806	2H	W85-02979	1806	2J
W85-02728	1806	8A	W85-02812	1806	5A	W85-02896	1806	5B	W85-02980	1806	5C
W85-02729	1806	5F	W85-02813	1806	5B	W85-02897	1806	2H	W85-02981	1806	5B
W85-02730	1806	5B	W85-02814	1806	2I	W85-02898	1806	5C	W85-02982	1806	3F
W85-02731	1806	5B	W85-02815	1806	2H	W85-02899	1806	6G	W85-02983	1806	6D
W85-02732	1806	2K	W85-02816	1806	2B	W85-02900	1806	2I	W85-02984	1806	4A
W85-02733	1806	2K	W85-02817	1806	2I	W85-02901	1806	2I	W85-02985	1806	6D
W85-02734	1806	5A	W85-02818	1806	5C	W85-02902	1806	2L	W85-02986	1806	2A
W85-02735	1806	5D	W85-02819	1806	2H	W85-02903	1806	2H	W85-02987	1806	6B
W85-02736	1806	5A	W85-02820	1806	5D	W85-02904	1806	5C	W85-02988	1806	6E
W85-02737	1806	5D	W85-02821	1806	5A	W85-02905	1806	5E	W85-02989	1806	7B
W85-02738	1806	5D	W85-02822	1806	5B	W85-02906	1806	5F	W85-02990	1806	7B
W85-02739	1806	5C	W85-02823	1806	5D	W85-02907	1806	5D	W85-02991	1806	5E
W85-02740	1806	5D	W85-02824	1806	5D	W85-02908	1806	5C	W85-02992	1806	5E
W85-02741	1806	5A	W85-02825	1806	2E	W85-02909	1806	5F	W85-02993	1806	5E
W85-02742	1806	5B	W85-02826	1806	4B	W85-02910	1806	5C	W85-02994	1806	5C
W85-02743	1806	5B	W85-02827	1806	2A	W85-02911	1806	5B	W85-02995	1806	2L
W85-02744	1806	5B	W85-02828	1806	5B	W85-02912	1806	5C	W85-02996	1806	2L
W85-02745	1806	5C	W85-02829	1806	2E	W85-02913	1806	5A	W85-02997	1806	5A
W85-02746	1806	5A	W85-02830	1806	2F	W85-02914	1806	5D	W85-02998	1806	2L
W85-02747	1806	5B	W85-02831	1806	2K	W85-02915	1806	5B	W85-02999	1806	2H
W85-02748	1806	5C	W85-02832	1806	2K	W85-02916	1806	5C	W85-03000	1806	2H
W85-02749	1806	5C	W85-02833	1806	5A	W85-02917	1806	5D	W85-03001	1806	5C
W85-02750	1806	5C	W85-02834	1806	2E	W85-02918	1806	5D	W85-03002	1806	5C
W85-02751	1806	5C	W85-02835	1806	2J	W85-02919	1806	5F	W85-03003	1806	5C
W85-02752	1806	5E	W85-02836	1806	2J	W85-02920	1806	5A	W85-03004	1806	5B
W85-02753	1806	6B	W85-02837	1806	2L	W85-02921	1806	5C	W85-03005	1806	8B
W85-02754	1806	5G	W85-02838	1806	3A	W85-02922	1806	5C	W85-03006	1806	2L
W85-02755	1806	5A	W85-02839	1806	5C	W85-02923	1806	5B	W85-03007	1806	8B
W85-02756	1806	5A	W85-02840	1806	5C	W85-02924	1806	5B	W85-03008	1806	8B
W85-02757	1806	5C	W85-02841	1806	5B	W85-02925	1806	5C	W85-03009	1806	8B
W85-02758	1806	5C	W85-02842	1806	5B	W85-02926	1806	2B	W85-03010	1806	8B
W85-02759	1806	5B	W85-02843	1806	2H	W85-02927	1806	5A	W85-03011	1806	2J
W85-02760	1806	5B	W85-02844	1806	5B	W85-02928	1806	2K	W85-03012	1806	2B
W85-02761	1806	5G	W85-02845	1806	5B	W85-02929	1806	2E	W85-03013	1806	8B
W85-02762	1806	5B	W85-02846	1806	5C	W85-02930	1806	2H	W85-03014	1806	8C
W85-02763	1806	5C	W85-02847	1806	6G	W85-02931	1806	2J	W85-03015	1806	2I
W85-02764	1806	5B	W85-02848	1806	5C	W85-02932	1806	5B	W85-03016	1806	2A
W85-02765	1806	5F	W85-02849	1806	5C	W85-02933	1806	5F	W85-03017	1806	5D
W85-02766	1806	5F	W85-02850	1806	6G	W85-02934	1806	5A	W85-03018	1806	5D
W85-02767	1806	5D	W85-02851	1806	2H	W85-02935	1806	5D	W85-03019	1806	8C
W85-02768	1806	5D	W85-02852	1806	6G	W85-02936	1806	5A	W85-03020	1806	6G
W85-02769	1806	5D	W85-02853	1806	5C	W85-02937	1806	5F	W85-03021	1806	5F
W85-02770	1806	5C	W85-02854	1806	5C	W85-02938	1806	5A	W85-03022	1806	5C
W85-02771	1806	5C	W85-02855	1806	2H	W85-02939	1806	5B	W85-03023	1806	2H
W85-02772	1806	2H	W85-02856	1806	2K	W85-02940	1806	5F	W85-03024	1806	2H

## ACCESSION NUMBER INDEX

W85-03025

W85-03025	1806	5B	W85-03109	1806	5B	W85-03193	1806	2F	W85-03277	1807	5F
W85-03026	1806	5G	W85-03110	1806	2H	W85-03194	1806	2F	W85-03278	1807	5A
W85-03027	1806	5B	W85-03111	1806	2F	W85-03195	1806	2H	W85-03279	1807	5A
W85-03028	1806	5B	W85-03112	1806	5C	W85-03196	1806	2E	W85-03280	1807	5A
W85-03029	1806	3F	W85-03113	1806	5C	W85-03197	1806	2J	W85-03281	1807	5B
W85-03030	1806	5B	W85-03114	1806	5C	W85-03198	1806	2C	W85-03282	1807	5B
W85-03031	1806	5D	W85-03115	1806	5C	W85-03199	1806	5C	W85-03283	1807	5B
W85-03032	1806	5A	W85-03116	1806	5C	W85-03200	1806	5C	W85-03284	1807	5A
W85-03033	1806	5B	W85-03117	1806	5C	W85-03201	1806	2A	W85-03285	1807	5B
W85-03034	1806	2J	W85-03118	1806	2I	W85-03202	1806	4D	W85-03286	1807	5B
W85-03035	1806	2E	W85-03119	1806	5B	W85-03203	1806	6D	W85-03287	1807	5B
W85-03036	1806	2F	W85-03120	1806	6G	W85-03204	1806	4D	W85-03288	1807	5B
W85-03037	1806	2E	W85-03121	1806	6G	W85-03205	1806	2K	W85-03289	1807	5B
W85-03038	1806	8B	W85-03122	1806	2H	W85-03206	1806	2K	W85-03290	1807	5B
W85-03039	1806	6A	W85-03123	1806	5C	W85-03207	1806	2L	W85-03291	1807	5B
W85-03040	1806	6B	W85-03124	1806	2H	W85-03208	1806	2K	W85-03292	1807	5B
W85-03041	1806	5A	W85-03125	1806	2H	W85-03209	1806	2L	W85-03293	1807	5B
W85-03042	1806	5A	W85-03126	1806	5C	W85-03210	1806	2F	W85-03294	1807	5B
W85-03043	1806	5C	W85-03127	1806	5B	W85-03211	1806	2L	W85-03295	1807	5B
W85-03044	1806	8I	W85-03128	1806	2I	W85-03212	1806	2H	W85-03296	1807	2K
W85-03045	1806	5C	W85-03129	1806	6B	W85-03213	1806	2K	W85-03297	1807	5B
W85-03046	1806	5C	W85-03130	1806	6B	W85-03214	1806	2J	W85-03298	1807	5B
W85-03047	1806	2H	W85-03131	1806	7B	W85-03215	1806	2J	W85-03299	1807	5D
W85-03048	1806	5A	W85-03132	1806	3C	W85-03216	1806	2J	W85-03300	1807	5D
W85-03049	1806	5D	W85-03133	1806	6F	W85-03217	1806	5C	W85-03301	1807	7B
W85-03050	1806	5D	W85-03134	1806	6B	W85-03218	1807	5C	W85-03302	1807	7B
W85-03051	1806	5F	W85-03135	1806	2E	W85-03219	1807	2I	W85-03303	1807	7B
W85-03052	1806	2L	W85-03136	1806	6A	W85-03220	1807	5D	W85-03304	1807	2H
W85-03053	1806	8E	W85-03137	1806	2E	W85-03221	1807	5B	W85-03305	1807	2H
W85-03054	1806	5A	W85-03138	1806	6D	W85-03222	1807	5C	W85-03306	1807	5A
W85-03055	1806	5G	W85-03139	1806	2E	W85-03223	1807	5C	W85-03307	1807	2K
W85-03056	1806	5A	W85-03140	1806	6D	W85-03224	1807	5C	W85-03308	1807	5B
W85-03057	1806	2K	W85-03141	1806	4B	W85-03225	1807	5C	W85-03309	1807	2H
W85-03058	1806	4A	W85-03142	1806	2E	W85-03226	1807	5C	W85-03310	1807	5C
W85-03059	1806	3E	W85-03143	1806	2L	W85-03227	1807	5B	W85-03311	1807	7B
W85-03060	1806	7C	W85-03144	1806	2H	W85-03228	1807	5C	W85-03312	1807	6G
W85-03061	1806	3C	W85-03145	1806	7B	W85-03229	1807	5B	W85-03313	1807	5C
W85-03062	1806	4A	W85-03146	1806	7B	W85-03230	1807	2H	W85-03314	1807	2C
W85-03063	1806	5D	W85-03147	1806	2F	W85-03231	1807	2H	W85-03315	1807	5C
W85-03064	1806	3D	W85-03148	1806	2H	W85-03232	1807	2J	W85-03316	1807	5D
W85-03065	1806	2E	W85-03149	1806	2F	W85-03233	1807	2H	W85-03317	1807	5D
W85-03066	1806	6D	W85-03150	1806	2F	W85-03234	1807	2H	W85-03318	1807	5B
W85-03067	1806	2H	W85-03151	1806	2F	W85-03235	1807	5C	W85-03319	1807	2I
W85-03068	1806	5C	W85-03152	1806	2F	W85-03236	1807	5C	W85-03320	1807	5F
W85-03069	1806	2E	W85-03153	1806	2F	W85-03237	1807	2L	W85-03321	1807	5F
W85-03070	1806	2H	W85-03154	1806	5G	W85-03238	1807	5C	W85-03322	1807	5F
W85-03071	1806	4A	W85-03155	1806	2K	W85-03239	1807	5C	W85-03323	1807	6G
W85-03072	1806	5C	W85-03156	1806	2F	W85-03240	1807	5B	W85-03324	1807	8A
W85-03073	1806	2H	W85-03157	1806	2F	W85-03241	1807	5B	W85-03325	1807	6B
W85-03074	1806	2H	W85-03158	1806	6C	W85-03242	1807	2H	W85-03326	1807	6G
W85-03075	1806	2K	W85-03159	1806	6B	W85-03243	1807	2H	W85-03327	1807	8A
W85-03076	1806	5B	W85-03160	1806	2F	W85-03244	1807	2J	W85-03328	1807	8C
W85-03077	1806	4A	W85-03161	1806	2J	W85-03245	1807	2H	W85-03329	1807	5D
W85-03078	1806	2E	W85-03162	1806	2J	W85-03246	1807	2L	W85-03330	1807	5D
W85-03079	1806	2E	W85-03163	1806	2F	W85-03247	1807	5C	W85-03331	1807	5D
W85-03080	1806	2F	W85-03164	1806	6B	W85-03248	1807	5F	W85-03332	1807	5G
W85-03081	1806	2F	W85-03165	1806	2C	W85-03249	1807	8A	W85-03333	1807	5D
W85-03082	1806	2F	W85-03166	1806	2F	W85-03250	1807	6G	W85-03334	1807	5D
W85-03083	1806	2K	W85-03167	1806	2F	W85-03251	1807	6A	W85-03335	1807	5B
W85-03084	1806	5B	W85-03168	1806	2E	W85-03252	1807	6G	W85-03336	1807	5D
W85-03085	1806	2E	W85-03169	1806	2B	W85-03253	1807	8A	W85-03337	1807	5D
W85-03086	1806	2G	W85-03170	1806	2F	W85-03254	1807	8A	W85-03338	1807	2L
W85-03087	1806	2H	W85-03171	1806	7B	W85-03255	1807	8A	W85-03339	1807	5C
W85-03088	1806	2A	W85-03172	1806	7B	W85-03256	1807	8A	W85-03340	1807	5A
W85-03089	1806	2E	W85-03173	1806	5A	W85-03257	1807	8A	W85-03341	1807	2C
W85-03090	1806	2E	W85-03174	1806	5A	W85-03258	1807	8A	W85-03342	1807	2C
W85-03091	1806	3B	W85-03175	1806	5A	W85-03259	1807	8E	W85-03343	1807	2C
W85-03092	1806	2K	W85-03176	1806	2B	W85-03260	1807	8F	W85-03344	1807	2C
W85-03093	1806	2G	W85-03177	1806	5A	W85-03261	1807	8A	W85-03345	1807	2C
W85-03094	1806	2G	W85-03178	1806	7B	W85-03262	1807	8A	W85-03346	1807	2C
W85-03095	1806	5C	W85-03179	1806	2F	W85-03263	1807	8E	W85-03347	1807	2L
W85-03096	1806	2G	W85-03180	1806	8E	W85-03264	1807	8A	W85-03348	1807	2L
W85-03097	1806	5E	W85-03181	1806	7B	W85-03265	1807	8C	W85-03349	1807	2J
W85-03098	1806	8D	W85-03182	1806	7B	W85-03266	1807	8C	W85-03350	1807	2J
W85-03099	1806	2H	W85-03183	1806	7B	W85-03267	1807	2E	W85-03351	1807	2J
W85-03100	1806	5B	W85-03184	1806	7B	W85-03268	1807	8A	W85-03352	1807	2J
W85-03101	1806	5C	W85-03185	1806	7B	W85-03269	1807	8E	W85-03353	1807	7B
W85-03102	1806	7A	W85-03186	1806	7B	W85-03270	1807	5F	W85-03354	1807	2J
W85-03103	1806	5B	W85-03187	1806	2F	W85-03271	1807	5D	W85-03355	1807	2I
W85-03104	1806	5C	W85-03188	1806	2D	W85-03272	1807	8E	W85-03356	1807	2I
W85-03105	1806	5B	W85-03189	1806	2F	W85-03273	1807	5D	W85-03357	1807	3F
W85-03106	1806	5B	W85-03190	1806	2F	W85-03274	1807	4A	W85-03358	1807	2I
W85-03107	1806	2L	W85-03191	1806	7B	W85-03275	1807	5D	W85-03359	1807	2I
W85-03108	1806	2L	W85-03192	1806	7B	W85-03276	1807	5D	W85-03360	1807	2I

## ACCESSION NUMBER INDEX

W85-03696

W85-03361	1807	2I	W85-03445	1807	2F	W85-03529	1807	6E	W85-03613	1807	6C
W85-03362	1807	2I	W85-03446	1807	5F	W85-03530	1807	6E	W85-03614	1807	6C
W85-03363	1807	3F	W85-03447	1807	8A	W85-03531	1807	5C	W85-03615	1807	6C
W85-03364	1807	3F	W85-03448	1807	2J	W85-03532	1807	5C	W85-03616	1807	6C
W85-03365	1807	3F	W85-03449	1807	2E	W85-03533	1807	5F	W85-03617	1807	5G
W85-03366	1807	2J	W85-03450	1807	8A	W85-03534	1807	7B	W85-03618	1807	5F
W85-03367	1807	5G	W85-03451	1807	4A	W85-03535	1807	5B	W85-03619	1807	5D
W85-03368	1807	2I	W85-03452	1807	8A	W85-03536	1807	2F	W85-03620	1807	4B
W85-03369	1807	4D	W85-03453	1807	8F	W85-03537	1807	2F	W85-03621	1807	5F
W85-03370	1807	2J	W85-03454	1807	8A	W85-03538	1807	7B	W85-03622	1807	5F
W85-03371	1807	7B	W85-03455	1807	4A	W85-03539	1807	5B	W85-03623	1807	5F
W85-03372	1807	2I	W85-03456	1807	8A	W85-03540	1807	5C	W85-03624	1807	5F
W85-03373	1807	2D	W85-03457	1807	8A	W85-03541	1807	5A	W85-03625	1807	5F
W85-03374	1807	2J	W85-03458	1807	5D	W85-03542	1807	5A	W85-03626	1807	8B
W85-03375	1807	2G	W85-03459	1807	5D	W85-03543	1807	5C	W85-03627	1807	5F
W85-03376	1807	2A	W85-03460	1807	5D	W85-03544	1807	5D	W85-03628	1807	5A
W85-03377	1807	2G	W85-03461	1807	5D	W85-03545	1807	5D	W85-03629	1807	5G
W85-03378	1807	3F	W85-03462	1807	5D	W85-03546	1807	5A	W85-03630	1807	2B
W85-03379	1807	5B	W85-03463	1807	5D	W85-03547	1807	5A	W85-03631	1807	5B
W85-03380	1807	2G	W85-03464	1807	5D	W85-03548	1807	6B	W85-03632	1807	2H
W85-03381	1807	5D	W85-03465	1807	6C	W85-03549	1807	4A	W85-03633	1807	2L
W85-03382	1807	3F	W85-03466	1807	5D	W85-03550	1807	6F	W85-03634	1807	5C
W85-03383	1807	3F	W85-03467	1807	3E	W85-03551	1807	2E	W85-03635	1807	2L
W85-03384	1807	4B	W85-03468	1807	3F	W85-03552	1807	4A	W85-03636	1807	2L
W85-03385	1807	7B	W85-03469	1807	3F	W85-03553	1807	2F	W85-03637	1807	5D
W85-03386	1807	2G	W85-03470	1807	5D	W85-03554	1807	2F	W85-03638	1807	6G
W85-03387	1807	2E	W85-03471	1807	3E	W85-03555	1807	4B	W85-03639	1807	5C
W85-03388	1807	2J	W85-03472	1807	3F	W85-03556	1807	4B	W85-03640	1807	5D
W85-03389	1807	5B	W85-03473	1807	5D	W85-03557	1807	2B	W85-03641	1807	5D
W85-03390	1807	2J	W85-03474	1807	2H	W85-03558	1807	2B	W85-03642	1807	5D
W85-03391	1807	2G	W85-03475	1807	2L	W85-03559	1807	2B	W85-03643	1807	5D
W85-03392	1807	2G	W85-03476	1807	8A	W85-03560	1807	2G	W85-03644	1807	5D
W85-03393	1807	7B	W85-03477	1807	2G	W85-03561	1807	2G	W85-03645	1807	5D
W85-03394	1807	7A	W85-03478	1807	3F	W85-03562	1807	2A	W85-03646	1807	5D
W85-03395	1807	2E	W85-03479	1807	2F	W85-03563	1807	3B	W85-03647	1807	5D
W85-03396	1807	3F	W85-03480	1807	5G	W85-03564	1807	3B	W85-03648	1807	5D
W85-03397	1807	2J	W85-03481	1807	3F	W85-03565	1807	2E	W85-03649	1807	5D
W85-03398	1807	2J	W85-03482	1807	2G	W85-03566	1807	2E	W85-03650	1807	5D
W85-03399	1807	2G	W85-03483	1807	3F	W85-03567	1807	2J	W85-03651	1807	5D
W85-03400	1807	2E	W85-03484	1807	3F	W85-03568	1807	2K	W85-03652	1807	5D
W85-03401	1807	2J	W85-03485	1807	3F	W85-03569	1807	2G	W85-03653	1807	5D
W85-03402	1807	2J	W85-03486	1807	3F	W85-03570	1807	5B	W85-03654	1807	5B
W85-03403	1807	3F	W85-03487	1807	2H	W85-03571	1807	2F	W85-03655	1807	4A
W85-03404	1807	3F	W85-03488	1807	2J	W85-03572	1807	1C	W85-03656	1807	3F
W85-03405	1807	5A	W85-03489	1807	5C	W85-03573	1807	5B	W85-03657	1807	4A
W85-03406	1807	5A	W85-03490	1807	5C	W85-03574	1807	2F	W85-03658	1807	3C
W85-03407	1807	5D	W85-03491	1807	7B	W85-03575	1807	5B	W85-03659	1807	8G
W85-03408	1807	5A	W85-03492	1807	7B	W85-03576	1807	2J	W85-03660	1807	2K
W85-03409	1807	2L	W85-03493	1807	2L	W85-03577	1807	8D	W85-03661	1807	5B
W85-03410	1807	5A	W85-03494	1807	5C	W85-03578	1807	8A	W85-03662	1807	5E
W85-03411	1807	5A	W85-03495	1807	2H	W85-03579	1807	8D	W85-03663	1807	5B
W85-03412	1807	5A	W85-03496	1807	2H	W85-03580	1807	8E	W85-03664	1807	5F
W85-03413	1807	5D	W85-03497	1807	2H	W85-03581	1807	8A	W85-03665	1807	5D
W85-03414	1807	5A	W85-03498	1807	2L	W85-03582	1807	8B	W85-03666	1807	5A
W85-03415	1807	5D	W85-03499	1807	2L	W85-03583	1807	8C	W85-03667	1807	5B
W85-03416	1807	2F	W85-03500	1807	5B	W85-03584	1807	8C	W85-03668	1807	5A
W85-03417	1807	2F	W85-03501	1807	5B	W85-03585	1807	9C	W85-03669	1807	5A
W85-03418	1807	2F	W85-03502	1807	2L	W85-03586	1807	8B	W85-03670	1807	5A
W85-03419	1807	8D	W85-03503	1807	5C	W85-03587	1807	6A	W85-03671	1807	5B
W85-03420	1807	2G	W85-03504	1807	5C	W85-03588	1807	8A	W85-03672	1807	2F
W85-03421	1807	8E	W85-03505	1807	5C	W85-03589	1807	8B	W85-03673	1807	2K
W85-03422	1807	8D	W85-03506	1807	2H	W85-03590	1807	5D	W85-03674	1807	2L
W85-03423	1807	8D	W85-03507	1807	6G	W85-03591	1807	5F	W85-03675	1807	2L
W85-03424	1807	2F	W85-03508	1807	5B	W85-03592	1807	7B	W85-03676	1807	2L
W85-03425	1807	2F	W85-03509	1807	5C	W85-03593	1807	5A	W85-03677	1807	2J
W85-03426	1807	2J	W85-03510	1807	5C	W85-03594	1807	5B	W85-03678	1807	5B
W85-03427	1807	5E	W85-03511	1807	5C	W85-03595	1807	5B	W85-03679	1807	5A
W85-03428	1807	8A	W85-03512	1807	2I	W85-03596	1807	5B	W85-03680	1807	2H
W85-03429	1807	8A	W85-03513	1807	5C	W85-03597	1807	5A	W85-03681	1807	5A
W85-03430	1807	5B	W85-03514	1807	5D	W85-03598	1807	5C	W85-03682	1807	5D
W85-03431	1807	5B	W85-03515	1807	3B	W85-03599	1807	2H	W85-03683	1807	2H
W85-03432	1807	5B	W85-03516	1807	3B	W85-03600	1807	2H	W85-03684	1807	2K
W85-03433	1807	5B	W85-03517	1807	7C	W85-03601	1807	2H	W85-03685	1807	2H
W85-03434	1807	5D	W85-03518	1807	2E	W85-03602	1807	5B	W85-03686	1807	2H
W85-03435	1807	5D	W85-03519	1807	2B	W85-03603	1807	5C	W85-03687	1807	5C
W85-03436	1807	5B	W85-03520	1807	6F	W85-03604	1807	5C	W85-03688	1807	5C
W85-03437	1807	4A	W85-03521	1807	8A	W85-03605	1807	5C	W85-03689	1807	5C
W85-03438	1807	2H	W85-03522	1807	5D	W85-03606	1807	2H	W85-03690	1807	5B
W85-03439	1807	2J	W85-03523	1807	3E	W85-03607	1807	5C	W85-03691	1807	5C
W85-03440	1807	5C	W85-03524	1807	3E	W85-03608	1807	2J	W85-03692	1807	5C
W85-03441	1807	8C	W85-03525	1807	6B	W85-03609	1807	2I	W85-03693	1807	2L
W85-03442	1807	8A	W85-03526	1807	5F	W85-03610	1807	2I	W85-03694	1807	2H
W85-03443	1807	8A	W85-03527	1807	5F	W85-03611	1807	2H	W85-03695	1807	2L
W85-03444	1807	8A	W85-03528	1807	6E	W85-03612	1807	6C	W85-03696	1807	2H

## ACCESSION NUMBER INDEX

W85-03697

W85-03697	1807	2H	W85-03781	1808	5B	W85-03865	1808	5A	W85-03949	1808	5A
W85-03698	1807	2I	W85-03782	1808	2F	W85-03866	1808	5D	W85-03950	1808	5G
W85-03699	1807	3B	W85-03783	1808	8B	W85-03867	1808	5D	W85-03951	1808	2E
W85-03700	1807	6G	W85-03784	1808	2F	W85-03868	1808	5D	W85-03952	1808	2F
W85-03701	1807	6B	W85-03785	1808	2J	W85-03869	1808	5D	W85-03953	1808	7C
W85-03702	1807	6B	W85-03786	1808	2J	W85-03870	1808	5D	W85-03954	1808	2F
W85-03703	1807	5D	W85-03787	1808	8B	W85-03871	1808	7B	W85-03955	1808	2F
W85-03704	1807	4A	W85-03788	1808	2E	W85-03872	1808	8A	W85-03956	1808	7C
W85-03705	1807	6B	W85-03789	1808	2J	W85-03873	1808	5D	W85-03957	1808	6D
W85-03706	1807	5F	W85-03790	1808	2E	W85-03874	1808	2J	W85-03958	1808	2F
W85-03707	1807	4A	W85-03791	1808	2L	W85-03875	1808	2J	W85-03959	1808	2F
W85-03708	1807	4A	W85-03792	1808	2E	W85-03876	1808	2H	W85-03960	1808	2E
W85-03709	1807	5F	W85-03793	1808	2E	W85-03877	1808	5B	W85-03961	1808	2E
W85-03710	1807	5B	W85-03794	1808	2B	W85-03878	1808	2L	W85-03962	1808	2I
W85-03711	1807	5C	W85-03795	1808	2J	W85-03879	1808	2H	W85-03963	1808	2G
W85-03712	1807	5E	W85-03796	1808	5D	W85-03880	1808	5A	W85-03964	1808	2G
W85-03713	1807	5B	W85-03797	1808	3B	W85-03881	1808	6B	W85-03965	1808	2G
W85-03714	1807	6E	W85-03798	1808	5D	W85-03882	1808	5F	W85-03966	1808	2A
W85-03715	1807	5G	W85-03799	1808	7C	W85-03883	1808	4A	W85-03967	1808	4D
W85-03716	1807	5G	W85-03800	1808	2F	W85-03884	1808	3D	W85-03968	1808	2I
W85-03717	1807	5G	W85-03801	1808	5B	W85-03885	1808	5F	W85-03969	1808	2J
W85-03718	1807	2H	W85-03802	1808	5F	W85-03886	1808	6C	W85-03970	1808	2K
W85-03719	1807	5A	W85-03803	1808	5G	W85-03887	1808	5A	W85-03971	1808	5A
W85-03720	1807	5A	W85-03804	1808	2L	W85-03888	1808	6C	W85-03972	1808	2H
W85-03721	1807	5D	W85-03805	1808	2H	W85-03889	1808	6C	W85-03973	1808	3A
W85-03722	1807	5F	W85-03806	1808	5F	W85-03890	1808	3A	W85-03974	1808	3A
W85-03723	1807	5D	W85-03807	1808	5A	W85-03891	1808	2F	W85-03975	1808	3A
W85-03724	1807	5D	W85-03808	1808	2E	W85-03892	1808	2F	W85-03976	1808	3A
W85-03725	1807	5F	W85-03809	1808	3A	W85-03893	1808	2F	W85-03977	1808	5D
W85-03726	1807	5D	W85-03810	1808	2E	W85-03894	1808	2H	W85-03978	1808	2K
W85-03727	1807	5D	W85-03811	1808	4A	W85-03895	1808	5B	W85-03979	1808	2K
W85-03728	1807	5A	W85-03812	1808	8D	W85-03896	1808	2F	W85-03980	1808	2F
W85-03729	1807	2I	W85-03813	1808	8D	W85-03897	1808	2J	W85-03981	1808	5B
W85-03730	1807	2H	W85-03814	1808	2G	W85-03898	1808	2F	W85-03982	1808	5G
W85-03731	1807	4A	W85-03815	1808	7B	W85-03899	1808	2F	W85-03983	1808	6B
W85-03732	1807	5A	W85-03816	1808	2G	W85-03900	1808	4B	W85-03984	1808	2E
W85-03733	1807	5A	W85-03817	1808	3F	W85-03901	1808	2F	W85-03985	1808	2K
W85-03734	1807	5A	W85-03818	1808	3F	W85-03902	1808	2F	W85-03986	1808	2K
W85-03735	1807	2H	W85-03819	1808	3F	W85-03903	1808	2F	W85-03987	1808	2A
W85-03736	1807	5C	W85-03820	1808	2F	W85-03904	1808	2F	W85-03988	1808	5B
W85-03737	1807	5B	W85-03821	1808	3F	W85-03905	1808	2F	W85-03989	1808	2F
W85-03738	1807	2H	W85-03822	1808	8B	W85-03906	1808	2F	W85-03990	1808	2K
W85-03739	1807	2G	W85-03823	1808	4C	W85-03907	1808	2K	W85-03991	1808	2C
W85-03740	1807	2H	W85-03824	1808	4C	W85-03908	1808	5B	W85-03992	1808	2C
W85-03741	1807	2L	W85-03825	1808	5C	W85-03909	1808	10C	W85-03993	1808	2H
W85-03742	1807	5A	W85-03826	1808	2H	W85-03910	1808	2J	W85-03994	1808	2E
W85-03743	1807	5A	W85-03827	1808	2J	W85-03911	1808	2E	W85-03995	1808	5B
W85-03744	1807	5G	W85-03828	1808	5C	W85-03912	1808	5B	W85-03996	1808	2A
W85-03745	1807	5D	W85-03829	1808	2H	W85-03913	1808	6A	W85-03997	1808	2G
W85-03746	1807	5C	W85-03830	1808	2H	W85-03914	1808	5B	W85-03998	1808	7B
W85-03747	1807	5A	W85-03831	1808	5B	W85-03915	1808	2F	W85-03999	1808	7B
W85-03748	1807	5F	W85-03832	1808	2H	W85-03916	1808	6D	W85-04000	1808	5A
W85-03749	1807	8B	W85-03833	1808	7B	W85-03917	1808	2E	W85-04001	1808	5E
W85-03750	1807	8B	W85-03834	1808	8I	W85-03918	1808	2E	W85-04002	1808	5E
W85-03751	1807	2A	W85-03835	1808	2E	W85-03919	1808	5B	W85-04003	1808	5E
W85-03752	1807	4B	W85-03836	1808	5C	W85-03920	1808	2F	W85-04004	1808	5E
W85-03753	1807	2F	W85-03837	1808	8I	W85-03921	1808	2F	W85-04005	1808	5E
W85-03754	1807	2A	W85-03838	1808	2I	W85-03922	1808	10C	W85-04006	1808	5E
W85-03755	1807	2G	W85-03839	1808	2L	W85-03923	1808	2E	W85-04007	1808	5E
W85-03756	1807	2F	W85-03840	1808	2L	W85-03924	1808	2F	W85-04008	1808	5D
W85-03757	1807	2G	W85-03841	1808	5C	W85-03925	1808	5B	W85-04009	1808	5D
W85-03758	1807	2A	W85-03842	1808	2H	W85-03926	1808	2K	W85-04010	1808	2K
W85-03759	1807	2D	W85-03843	1808	5F	W85-03927	1808	5A	W85-04011	1808	5B
W85-03760	1807	2D	W85-03844	1808	6G	W85-03928	1808	4A	W85-04012	1808	5D
W85-03761	1807	6G	W85-03845	1808	2E	W85-03929	1808	2F	W85-04013	1808	5B
W85-03762	1807	6G	W85-03846	1808	2B	W85-03930	1808	2K	W85-04014	1808	8B
W85-03763	1807	5D	W85-03847	1808	2B	W85-03931	1808	2F	W85-04015	1808	2L
W85-03764	1807	2L	W85-03848	1808	2B	W85-03932	1808	5E	W85-04016	1808	2L
W85-03765	1807	2A	W85-03849	1808	2D	W85-03933	1808	2F	W85-04017	1808	5A
W85-03766	1808	5E	W85-03850	1808	2B	W85-03934	1808	7C	W85-04018	1808	5F
W85-03767	1808	5G	W85-03851	1808	5B	W85-03935	1808	2E	W85-04019	1808	6E
W85-03768	1808	5G	W85-03852	1808	2H	W85-03936	1808	2E	W85-04020	1808	8A
W85-03769	1808	5D	W85-03853	1808	5D	W85-03937	1808	2E	W85-04021	1808	6C
W85-03770	1808	5D	W85-03854	1808	5D	W85-03938	1808	2F	W85-04022	1808	2B
W85-03771	1808	5B	W85-03855	1808	5D	W85-03939	1808	2F	W85-04023	1808	2B
W85-03772	1808	7B	W85-03856	1808	5B	W85-03940	1808	2E	W85-04024	1808	2B
W85-03773	1808	2F	W85-03857	1808	5B	W85-03941	1808	2F	W85-04025	1808	2C
W85-03774	1808	2E	W85-03858	1808	5B	W85-03942	1808	2E	W85-04026	1808	8D
W85-03775	1808	8C	W85-03859	1808	5B	W85-03943	1808	2F	W85-04027	1808	8D
W85-03776	1808	2J	W85-03860	1808	5B	W85-03944	1808	5B	W85-04028	1808	8A
W85-03777	1808	2E	W85-03861	1808	5B	W85-03945	1808	2K	W85-04029	1808	8E
W85-03778	1808	8B	W85-03862	1808	2L	W85-03946	1808	2F	W85-04030	1808	8A
W85-03779	1808	2E	W85-03863	1808	5E	W85-03947	1808	2K	W85-04031	1808	8F
W85-03780	1808	2J	W85-03864	1808	2A	W85-03948	1808	2B	W85-04032	1808	8D

## ACCESSION NUMBER INDEX

W85-04368

W85-04033	1808	8A	W85-04117	1808	2L	W85-04201	1808	5C	W85-04285	1808	2A
W85-04034	1808	5A	W85-04118	1808	2E	W85-04202	1808	5C	W85-04286	1808	5D
W85-04035	1808	5C	W85-04119	1808	8B	W85-04203	1808	5C	W85-04287	1808	5D
W85-04036	1808	5D	W85-04120	1808	2K	W85-04204	1808	5C	W85-04288	1808	5D
W85-04037	1808	5D	W85-04121	1808	5B	W85-04205	1808	5C	W85-04289	1808	5D
W85-04038	1808	5D	W85-04122	1808	2F	W85-04206	1808	5C	W85-04290	1808	5D
W85-04039	1808	5B	W85-04123	1808	2F	W85-04207	1808	5C	W85-04291	1808	5E
W85-04040	1808	2K	W85-04124	1808	2J	W85-04208	1808	3B	W85-04292	1808	5C
W85-04041	1808	2E	W85-04125	1808	2L	W85-04209	1808	8I	W85-04293	1808	5B
W85-04042	1808	2C	W85-04126	1808	2L	W85-04210	1808	3A	W85-04294	1808	2H
W85-04043	1808	2C	W85-04127	1808	2H	W85-04211	1808	3B	W85-04295	1808	5C
W85-04044	1808	6G	W85-04128	1808	6G	W85-04212	1808	3B	W85-04296	1808	5D
W85-04045	1808	5D	W85-04129	1808	2H	W85-04213	1808	5D	W85-04297	1808	5F
W85-04046	1808	2C	W85-04130	1808	2H	W85-04214	1808	3B	W85-04298	1808	2K
W85-04047	1808	8A	W85-04131	1808	6G	W85-04215	1808	3B	W85-04299	1808	5D
W85-04048	1808	5D	W85-04132	1808	5E	W85-04216	1808	3B	W85-04300	1808	7B
W85-04049	1808	2B	W85-04133	1808	5C	W85-04217	1808	5B	W85-04301	1808	5D
W85-04050	1808	5B	W85-04134	1808	2F	W85-04218	1808	2B	W85-04302	1808	5F
W85-04051	1808	5F	W85-04135	1808	2F	W85-04219	1808	8D	W85-04303	1808	5D
W85-04052	1808	2G	W85-04136	1808	2H	W85-04220	1808	5C	W85-04304	1808	2H
W85-04053	1808	4A	W85-04137	1808	2F	W85-04221	1808	8A	W85-04305	1808	2H
W85-04054	1808	2J	W85-04138	1808	2F	W85-04222	1808	5B	W85-04306	1808	2H
W85-04055	1808	2H	W85-04139	1808	5D	W85-04223	1808	3A	W85-04307	1808	2H
W85-04056	1808	2H	W85-04140	1808	5D	W85-04224	1808	6D	W85-04308	1808	7B
W85-04057	1808	2H	W85-04141	1808	5D	W85-04225	1808	8A	W85-04309	1808	2J
W85-04058	1808	5C	W85-04142	1808	2A	W85-04226	1808	2B	W85-04310	1808	2K
W85-04059	1808	5C	W85-04143	1808	2A	W85-04227	1808	5C	W85-04311	1808	2H
W85-04060	1808	2H	W85-04144	1808	2F	W85-04228	1808	5E	W85-04312	1808	2K
W85-04061	1808	7B	W85-04145	1808	2L	W85-04229	1808	5C	W85-04313	1808	2H
W85-04062	1808	2H	W85-04146	1808	6G	W85-04230	1808	5C	W85-04314	1808	5C
W85-04063	1808	2H	W85-04147	1808	3F	W85-04231	1808	5C	W85-04315	1808	2H
W85-04064	1808	2H	W85-04148	1808	6D	W85-04232	1808	5D	W85-04316	1808	5B
W85-04065	1808	5B	W85-04149	1808	2H	W85-04233	1808	5D	W85-04317	1808	5C
W85-04066	1808	5C	W85-04150	1808	2E	W85-04234	1808	5D	W85-04318	1808	2H
W85-04067	1808	2H	W85-04151	1808	2E	W85-04235	1808	5B	W85-04319	1808	5C
W85-04068	1808	2I	W85-04152	1808	2H	W85-04236	1808	5A	W85-04320	1808	2H
W85-04069	1808	2H	W85-04153	1808	2J	W85-04237	1808	5E	W85-04321	1808	2F
W85-04070	1808	2L	W85-04154	1808	2H	W85-04238	1808	6B	W85-04322	1808	3D
W85-04071	1808	2G	W85-04155	1808	8B	W85-04239	1808	2K	W85-04323	1808	2H
W85-04072	1808	2H	W85-04156	1808	2G	W85-04240	1808	2L	W85-04324	1808	5F
W85-04073	1808	2H	W85-04157	1808	2E	W85-04241	1808	6C	W85-04325	1808	5B
W85-04074	1808	2K	W85-04158	1808	8B	W85-04242	1808	5F	W85-04326	1808	8D
W85-04075	1808	2H	W85-04159	1808	2A	W85-04243	1808	4A	W85-04327	1808	2E
W85-04076	1808	2H	W85-04160	1808	2A	W85-04244	1808	6F	W85-04328	1808	2E
W85-04077	1808	5C	W85-04161	1808	2G	W85-04245	1808	4A	W85-04329	1808	2E
W85-04078	1808	2E	W85-04162	1808	2F	W85-04246	1808	4A	W85-04330	1808	2E
W85-04079	1808	2L	W85-04163	1808	2F	W85-04247	1808	2E	W85-04331	1808	2E
W85-04080	1808	2H	W85-04164	1808	2A	W85-04248	1808	2K	W85-04332	1808	4C
W85-04081	1808	2H	W85-04165	1808	2F	W85-04249	1808	2K	W85-04333	1808	8B
W85-04082	1808	6G	W85-04166	1808	3F	W85-04250	1808	2G	W85-04334	1808	8B
W85-04083	1808	5C	W85-04167	1808	2C	W85-04251	1808	5D	W85-04335	1808	5G
W85-04084	1808	5B	W85-04168	1808	2F	W85-04252	1808	5D	W85-04336	1808	5F
W85-04085	1808	5C	W85-04169	1808	2F	W85-04253	1808	5D	W85-04337	1808	5D
W85-04086	1808	7B	W85-04170	1808	2F	W85-04254	1808	5D	W85-04338	1808	5D
W85-04087	1808	2H	W85-04171	1808	5B	W85-04255	1808	5A	W85-04339	1808	2F
W85-04088	1808	2H	W85-04172	1808	2F	W85-04256	1808	2H	W85-04340	1808	5A
W85-04089	1808	6G	W85-04173	1808	8B	W85-04257	1808	5B	W85-04341	1808	5C
W85-04090	1808	6G	W85-04174	1808	2F	W85-04258	1808	5A	W85-04342	1808	8G
W85-04091	1808	2E	W85-04175	1808	2F	W85-04259	1808	5E	W85-04343	1808	2G
W85-04092	1808	2F	W85-04176	1808	5C	W85-04260	1808	5E	W85-04344	1808	2J
W85-04093	1808	2K	W85-04177	1808	6E	W85-04261	1808	5B	W85-04345	1808	2G
W85-04094	1808	2F	W85-04178	1808	6G	W85-04262	1808	5A	W85-04346	1808	3F
W85-04095	1808	2F	W85-04179	1808	6E	W85-04263	1808	5B	W85-04347	1808	5A
W85-04096	1808	2F	W85-04180	1808	6E	W85-04264	1808	5F	W85-04348	1808	5C
W85-04097	1808	2H	W85-04181	1808	6E	W85-04265	1808	5A	W85-04349	1808	5B
W85-04098	1808	5G	W85-04182	1808	6E	W85-04266	1808	2K	W85-04350	1808	5A
W85-04099	1808	5G	W85-04183	1808	6E	W85-04267	1808	5B	W85-04351	1808	5B
W85-04100	1808	2H	W85-04184	1808	6E	W85-04268	1808	2K	W85-04352	1808	5B
W85-04101	1808	2J	W85-04185	1808	6E	W85-04269	1808	2K	W85-04353	1808	5C
W85-04102	1808	6A	W85-04186	1808	6D	W85-04270	1808	2K	W85-04354	1808	5C
W85-04103	1808	5G	W85-04187	1808	6E	W85-04271	1808	2K	W85-04355	1808	2G
W85-04104	1808	2H	W85-04188	1808	6E	W85-04272	1808	2K	W85-04356	1808	5D
W85-04105	1808	2H	W85-04189	1808	6D	W85-04273	1808	2F	W85-04357	1808	5B
W85-04106	1808	2F	W85-04190	1808	6E	W85-04274	1808	2F	W85-04358	1808	5C
W85-04107	1808	2F	W85-04191	1808	4B	W85-04275	1808	2F	W85-04359	1808	5C
W85-04108	1808	2K	W85-04192	1808	6E	W85-04276	1808	2F	W85-04360	1808	5A
W85-04109	1808	2F	W85-04193	1808	6E	W85-04277	1808	2F	W85-04361	1808	5B
W85-04110	1808	2F	W85-04194	1808	5B	W85-04278	1808	2G	W85-04362	1808	5B
W85-04111	1808	6G	W85-04195	1808	3B	W85-04279	1808	2E	W85-04363	1808	5B
W85-04112	1808	2E	W85-04196	1808	6E	W85-04280	1808	2E	W85-04364	1808	5C
W85-04113	1808	5G	W85-04197	1808	5D	W85-04281	1808	2D	W85-04365	1808	5B
W85-04114	1808	5D	W85-04198	1808	5C	W85-04282	1808	2F	W85-04366	1808	5C
W85-04115	1808	2A	W85-04199	1808	5C	W85-04283	1808	2B	W85-04367	1808	5B
W85-04116	1808	2A	W85-04200	1808	5C	W85-04284	1808	2E	W85-04368	1808	6B

## ACCESSION NUMBER INDEX

W85-04369

W85-04369	1808	2H	W85-04453	1809	5G	W85-04537	1809	5G	W85-04621	1809	5A
W85-04370	1808	2K	W85-04454	1809	5A	W85-04538	1809	2H	W85-04622	1809	5A
W85-04371	1808	2K	W85-04455	1809	5E	W85-04539	1809	5G	W85-04623	1809	2K
W85-04372	1808	2L	W85-04456	1809	5D	W85-04540	1809	5C	W85-04624	1809	5A
W85-04373	1808	2L	W85-04457	1809	5G	W85-04541	1809	5C	W85-04625	1809	3B
W85-04374	1808	5G	W85-04458	1809	5G	W85-04542	1809	2H	W85-04626	1809	5F
W85-04375	1808	6E	W85-04459	1809	5G	W85-04543	1809	2H	W85-04627	1809	8B
W85-04376	1808	5C	W85-04460	1809	5G	W85-04544	1809	2H	W85-04628	1809	6C
W85-04377	1808	5C	W85-04461	1809	5G	W85-04545	1809	2H	W85-04629	1809	8A
W85-04378	1808	5C	W85-04462	1809	5C	W85-04546	1809	2K	W85-04630	1809	8B
W85-04379	1808	6B	W85-04463	1809	5E	W85-04547	1809	2H	W85-04631	1809	8B
W85-04380	1808	5B	W85-04464	1809	5D	W85-04548	1809	2H	W85-04632	1809	5F
W85-04381	1808	5C	W85-04465	1809	5G	W85-04549	1809	5C	W85-04633	1809	5G
W85-04382	1808	5B	W85-04466	1809	5C	W85-04550	1809	2K	W85-04634	1809	2K
W85-04383	1808	8D	W85-04467	1809	5A	W85-04551	1809	5C	W85-04635	1809	5B
W85-04384	1808	8D	W85-04468	1809	5D	W85-04552	1809	2H	W85-04636	1809	5A
W85-04385	1808	6G	W85-04469	1809	5F	W85-04553	1809	2L	W85-04637	1809	5B
W85-04386	1808	2L	W85-04470	1809	8A	W85-04554	1809	2H	W85-04638	1809	2K
W85-04387	1808	2H	W85-04471	1809	8A	W85-04555	1809	2H	W85-04639	1809	2F
W85-04388	1808	5C	W85-04472	1809	2C	W85-04556	1809	2H	W85-04640	1809	2F
W85-04389	1808	2H	W85-04473	1809	5B	W85-04557	1809	5C	W85-04641	1809	5B
W85-04390	1808	2H	W85-04474	1809	5B	W85-04558	1809	2H	W85-04642	1809	5B
W85-04391	1808	6D	W85-04475	1809	5C	W85-04559	1809	5G	W85-04643	1809	4B
W85-04392	1808	2L	W85-04476	1809	5A	W85-04560	1809	5B	W85-04644	1809	5B
W85-04393	1808	5B	W85-04477	1809	5B	W85-04561	1809	2H	W85-04645	1809	2F
W85-04394	1808	5B	W85-04478	1809	5C	W85-04562	1809	5C	W85-04646	1809	2J
W85-04395	1808	2J	W85-04479	1809	5C	W85-04563	1809	2H	W85-04647	1809	5B
W85-04396	1808	8B	W85-04480	1809	5B	W85-04564	1809	2H	W85-04648	1809	5E
W85-04397	1808	2J	W85-04481	1809	5B	W85-04565	1809	5C	W85-04649	1809	5E
W85-04398	1808	2J	W85-04482	1809	2K	W85-04566	1809	2H	W85-04650	1809	5D
W85-04399	1808	8B	W85-04483	1809	2L	W85-04567	1809	2H	W85-04651	1809	7C
W85-04400	1808	8B	W85-04484	1809	5B	W85-04568	1809	2H	W85-04652	1809	5D
W85-04401	1808	8B	W85-04485	1809	5A	W85-04569	1809	2H	W85-04653	1809	5A
W85-04402	1808	8A	W85-04486	1809	5D	W85-04570	1809	2H	W85-04654	1809	5A
W85-04403	1808	5D	W85-04487	1809	5D	W85-04571	1809	2K	W85-04655	1809	7B
W85-04404	1808	6B	W85-04488	1809	7B	W85-04572	1809	6A	W85-04656	1809	5A
W85-04405	1808	5F	W85-04489	1809	5D	W85-04573	1809	6A	W85-04657	1809	2H
W85-04406	1808	5F	W85-04490	1809	5C	W85-04574	1809	4A	W85-04658	1809	5C
W85-04407	1808	5F	W85-04491	1809	5A	W85-04575	1809	6G	W85-04659	1809	5D
W85-04408	1808	5F	W85-04492	1809	5F	W85-04576	1809	5G	W85-04660	1809	5D
W85-04409	1809	5F	W85-04493	1809	5D	W85-04577	1809	2A	W85-04661	1809	2H
W85-04410	1809	5A	W85-04494	1809	5D	W85-04578	1809	2I	W85-04662	1809	2K
W85-04411	1809	5D	W85-04495	1809	5D	W85-04579	1809	2A	W85-04663	1809	5F
W85-04412	1809	8A	W85-04496	1809	5C	W85-04580	1809	4A	W85-04664	1809	5E
W85-04413	1809	8A	W85-04497	1809	5B	W85-04581	1809	5B	W85-04665	1809	2H
W85-04414	1809	8F	W85-04498	1809	5F	W85-04582	1809	5G	W85-04666	1809	2H
W85-04415	1809	8A	W85-04499	1809	5B	W85-04583	1809	4C	W85-04667	1809	2B
W85-04416	1809	2E	W85-04500	1809	5B	W85-04584	1809	5B	W85-04668	1809	2H
W85-04417	1809	2G	W85-04501	1809	5B	W85-04585	1809	2H	W85-04669	1809	2H
W85-04418	1809	4C	W85-04502	1809	5B	W85-04586	1809	7B	W85-04670	1809	2H
W85-04419	1809	8B	W85-04503	1809	5B	W85-04587	1809	6F	W85-04671	1809	5G
W85-04420	1809	8A	W85-04504	1809	5B	W85-04588	1809	6E	W85-04672	1809	2H
W85-04421	1809	8B	W85-04505	1809	5B	W85-04589	1809	7B	W85-04673	1809	2L
W85-04422	1809	2J	W85-04506	1809	5B	W85-04590	1809	5D	W85-04674	1809	5C
W85-04423	1809	8C	W85-04507	1809	5C	W85-04591	1809	5D	W85-04675	1809	2L
W85-04424	1809	8B	W85-04508	1809	5D	W85-04592	1809	5E	W85-04676	1809	2L
W85-04425	1809	8F	W85-04509	1809	5G	W85-04593	1809	5D	W85-04677	1809	2L
W85-04426	1809	8A	W85-04510	1809	5D	W85-04594	1809	5D	W85-04678	1809	2H
W85-04427	1809	2J	W85-04511	1809	5D	W85-04595	1809	5D	W85-04679	1809	2E
W85-04428	1809	2E	W85-04512	1809	5D	W85-04596	1809	5D	W85-04680	1809	5C
W85-04429	1809	4A	W85-04513	1809	7C	W85-04597	1809	5E	W85-04681	1809	5C
W85-04430	1809	8D	W85-04514	1809	5E	W85-04598	1809	6G	W85-04682	1809	5C
W85-04431	1809	2K	W85-04515	1809	5D	W85-04599	1809	4B	W85-04683	1809	5G
W85-04432	1809	2L	W85-04516	1809	8D	W85-04600	1809	5B	W85-04684	1809	2L
W85-04433	1809	5A	W85-04517	1809	8A	W85-04601	1809	5B	W85-04685	1809	6A
W85-04434	1809	5C	W85-04518	1809	8F	W85-04602	1809	5B	W85-04686	1809	6A
W85-04435	1809	5C	W85-04519	1809	6B	W85-04603	1809	2L	W85-04687	1809	6C
W85-04436	1809	5B	W85-04520	1809	5G	W85-04604	1809	5C	W85-04688	1809	3D
W85-04437	1809	5B	W85-04521	1809	5D	W85-04605	1809	5C	W85-04689	1809	8A
W85-04438	1809	4D	W85-04522	1809	5D	W85-04606	1809	2K	W85-04690	1809	3D
W85-04439	1809	6G	W85-04523	1809	5D	W85-04607	1809	5A	W85-04691	1809	3D
W85-04440	1809	2J	W85-04524	1809	5A	W85-04608	1809	2L	W85-04692	1809	3D
W85-04441	1809	6B	W85-04525	1809	5G	W85-04609	1809	5C	W85-04693	1809	8A
W85-04442	1809	4D	W85-04526	1809	5D	W85-04610	1809	4C	W85-04694	1809	3D
W85-04443	1809	4D	W85-04527	1809	5G	W85-04611	1809	5B	W85-04695	1809	3D
W85-04444	1809	4D	W85-04528	1809	2L	W85-04612	1809	2H	W85-04696	1809	5C
W85-04445	1809	2J	W85-04529	1809	2L	W85-04613	1809	2K	W85-04697	1809	2H
W85-04446	1809	4D	W85-04530	1809	5A	W85-04614	1809	2L	W85-04698	1809	2F
W85-04447	1809	4D	W85-04531	1809	5C	W85-04615	1809	5A	W85-04699	1809	5C
W85-04448	1809	5C	W85-04532	1809	5C	W85-04616	1809	5B	W85-04700	1809	2H
W85-04449	1809	5F	W85-04533	1809	5G	W85-04617	1809	2G	W85-04701	1809	2H
W85-04450	1809	2L	W85-04534	1809	2H	W85-04618	1809	3C	W85-04702	1809	2H
W85-04451	1809	5C	W85-04535	1809	5B	W85-04619	1809	5G	W85-04703	1809	2H
W85-04452	1809	5D	W85-04536	1809	2H	W85-04620	1809	6B	W85-04704	1809	2L

## ACCESSION NUMBER INDEX

W85-05040

W85-04705	1809	5C	W85-04789	1809	5C	W85-04873	1809	5C	W85-04957	1809	2G
W85-04706	1809	5D	W85-04790	1809	2G	W85-04874	1809	5C	W85-04958	1809	8G
W85-04707	1809	8I	W85-04791	1809	2G	W85-04875	1809	5C	W85-04959	1809	5A
W85-04708	1809	5C	W85-04792	1809	5C	W85-04876	1809	5F	W85-04960	1809	5A
W85-04709	1809	5C	W85-04793	1809	2F	W85-04877	1809	5D	W85-04961	1809	5A
W85-04710	1809	5C	W85-04794	1809	2B	W85-04878	1809	5D	W85-04962	1809	2C
W85-04711	1809	5C	W85-04795	1809	2E	W85-04879	1809	5D	W85-04963	1809	5F
W85-04712	1809	2K	W85-04796	1809	2B	W85-04880	1809	5D	W85-04964	1809	5E
W85-04713	1809	8I	W85-04797	1809	5B	W85-04881	1809	5D	W85-04965	1809	5F
W85-04714	1809	2H	W85-04798	1809	6B	W85-04882	1809	2I	W85-04966	1809	5D
W85-04715	1809	5B	W85-04799	1809	5B	W85-04883	1809	2C	W85-04967	1809	5D
W85-04716	1809	5C	W85-04800	1809	5A	W85-04884	1809	5C	W85-04968	1809	5D
W85-04717	1809	5C	W85-04801	1809	2H	W85-04885	1809	5C	W85-04969	1810	2L
W85-04718	1809	5C	W85-04802	1809	2H	W85-04886	1809	5C	W85-04970	1810	5D
W85-04719	1809	2H	W85-04803	1809	5B	W85-04887	1809	2H	W85-04971	1810	5D
W85-04720	1809	5C	W85-04804	1809	2A	W85-04888	1809	5B	W85-04972	1810	2H
W85-04721	1809	5B	W85-04805	1809	7B	W85-04889	1809	5G	W85-04973	1810	5D
W85-04722	1809	2H	W85-04806	1809	6A	W85-04890	1809	5G	W85-04974	1810	5D
W85-04723	1809	2H	W85-04807	1809	2E	W85-04891	1809	5B	W85-04975	1810	7B
W85-04724	1809	2H	W85-04808	1809	5B	W85-04892	1809	5C	W85-04976	1810	5C
W85-04725	1809	5C	W85-04809	1809	5D	W85-04893	1809	5A	W85-04977	1810	2H
W85-04726	1809	2F	W85-04810	1809	5A	W85-04894	1809	5B	W85-04978	1810	2H
W85-04727	1809	2D	W85-04811	1809	4A	W85-04895	1809	5A	W85-04979	1810	5F
W85-04728	1809	2J	W85-04812	1809	2I	W85-04896	1809	2H	W85-04980	1810	5A
W85-04729	1809	2J	W85-04813	1809	8C	W85-04897	1809	2H	W85-04981	1810	5D
W85-04730	1809	5D	W85-04814	1809	2H	W85-04898	1809	5A	W85-04982	1810	2H
W85-04731	1809	5E	W85-04815	1809	2H	W85-04899	1809	2H	W85-04983	1810	7B
W85-04732	1809	2J	W85-04816	1809	5A	W85-04900	1809	2H	W85-04984	1810	2B
W85-04733	1809	2J	W85-04817	1809	2H	W85-04901	1809	2H	W85-04985	1810	5A
W85-04734	1809	2J	W85-04818	1809	2H	W85-04902	1809	5B	W85-04986	1810	5A
W85-04735	1809	2A	W85-04819	1809	8A	W85-04903	1809	5D	W85-04987	1810	2L
W85-04736	1809	2A	W85-04820	1809	5F	W85-04904	1809	2H	W85-04988	1810	5B
W85-04737	1809	2G	W85-04821	1809	5D	W85-04905	1809	5C	W85-04989	1810	6B
W85-04738	1809	2G	W85-04822	1809	5D	W85-04906	1809	2H	W85-04990	1810	2E
W85-04739	1809	6G	W85-04823	1809	2G	W85-04907	1809	2L	W85-04991	1810	2A
W85-04740	1809	2G	W85-04824	1809	2I	W85-04908	1809	2H	W85-04992	1810	5B
W85-04741	1809	5D	W85-04825	1809	2L	W85-04909	1809	2H	W85-04993	1810	2J
W85-04742	1809	7C	W85-04826	1809	6G	W85-04910	1809	2H	W85-04994	1810	2F
W85-04743	1809	7C	W85-04827	1809	2J	W85-04911	1809	2H	W85-04995	1810	3B
W85-04744	1809	3F	W85-04828	1809	5F	W85-04912	1809	2H	W85-04996	1810	5G
W85-04745	1809	8C	W85-04829	1809	5F	W85-04913	1809	5C	W85-04997	1810	6B
W85-04746	1809	2I	W85-04830	1809	5F	W85-04914	1809	8I	W85-04998	1810	2E
W85-04747	1809	4A	W85-04831	1809	5F	W85-04915	1809	6B	W85-04999	1810	6A
W85-04748	1809	4A	W85-04832	1809	5F	W85-04916	1809	6B	W85-05000	1810	6A
W85-04749	1809	4C	W85-04833	1809	5F	W85-04917	1809	6A	W85-05001	1810	4B
W85-04750	1809	5F	W85-04834	1809	5F	W85-04918	1809	6B	W85-05002	1810	2E
W85-04751	1809	5D	W85-04835	1809	2K	W85-04919	1809	3D	W85-05003	1810	2F
W85-04752	1809	3F	W85-04836	1809	2J	W85-04920	1809	3D	W85-05004	1810	2E
W85-04753	1809	6B	W85-04837	1809	5B	W85-04921	1809	6D	W85-05005	1810	2A
W85-04754	1809	6B	W85-04838	1809	5B	W85-04922	1809	3D	W85-05006	1810	2G
W85-04755	1809	6G	W85-04839	1809	2K	W85-04923	1809	6A	W85-05007	1810	7A
W85-04756	1809	6E	W85-04840	1809	8I	W85-04924	1809	6A	W85-05008	1810	5A
W85-04757	1809	5B	W85-04841	1809	2H	W85-04925	1809	6A	W85-05009	1810	5A
W85-04758	1809	2I	W85-04842	1809	2H	W85-04926	1809	8C	W85-05010	1810	5A
W85-04759	1809	2K	W85-04843	1809	2H	W85-04927	1809	6A	W85-05011	1810	5B
W85-04760	1809	2K	W85-04844	1809	2H	W85-04928	1809	7B	W85-05012	1810	5C
W85-04761	1809	2K	W85-04845	1809	5C	W85-04929	1809	5D	W85-05013	1810	5C
W85-04762	1809	2L	W85-04846	1809	2H	W85-04930	1809	7B	W85-05014	1810	5C
W85-04763	1809	2L	W85-04847	1809	8I	W85-04931	1809	5D	W85-05015	1810	5A
W85-04764	1809	5B	W85-04848	1809	2H	W85-04932	1809	5D	W85-05016	1810	5B
W85-04765	1809	5A	W85-04849	1809	2H	W85-04933	1809	5E	W85-05017	1810	2B
W85-04766	1809	6E	W85-04850	1809	2H	W85-04934	1809	2J	W85-05018	1810	2C
W85-04767	1809	5D	W85-04851	1809	5C	W85-04935	1809	8F	W85-05019	1810	2C
W85-04768	1809	8A	W85-04852	1809	5C	W85-04936	1809	8F	W85-05020	1810	2C
W85-04769	1809	5D	W85-04853	1809	2I	W85-04937	1809	5C	W85-05021	1810	2C
W85-04770	1809	5D	W85-04854	1809	2L	W85-04938	1809	8A	W85-05022	1810	8A
W85-04771	1809	5E	W85-04855	1809	2L	W85-04939	1809	5B	W85-05023	1810	8D
W85-04772	1809	5D	W85-04856	1809	2L	W85-04940	1809	5D	W85-05024	1810	8G
W85-04773	1809	5B	W85-04857	1809	5G	W85-04941	1809	5B	W85-05025	1810	8H
W85-04774	1809	5G	W85-04858	1809	2H	W85-04942	1809	2E	W85-05026	1810	8D
W85-04775	1809	5C	W85-04859	1809	6G	W85-04943	1809	2I	W85-05027	1810	8A
W85-04776	1809	5E	W85-04860	1809	5C	W85-04944	1809	5C	W85-05028	1810	5C
W85-04777	1809	5C	W85-04861	1809	5B	W85-04945	1809	5D	W85-05029	1810	5C
W85-04778	1809	6C	W85-04862	1809	5D	W85-04946	1809	5C	W85-05030	1810	5A
W85-04779	1809	6B	W85-04863	1809	5B	W85-04947	1809	6B	W85-05031	1810	5D
W85-04780	1809	6A	W85-04864	1809	5C	W85-04948	1809	6B	W85-05032	1810	5B
W85-04781	1809	8B	W85-04865	1809	5B	W85-04949	1809	6B	W85-05033	1810	5A
W85-04782	1809	8D	W85-04866	1809	5C	W85-04950	1809	8A	W85-05034	1810	6B
W85-04783	1809	8A	W85-04867	1809	5C	W85-04951	1809	6B	W85-05035	1810	3A
W85-04784	1809	6G	W85-04868	1809	5A	W85-04952	1809	8G	W85-05036	1810	5D
W85-04785	1809	6A	W85-04869	1809	5C	W85-04953	1809	5D	W85-05037	1810	6G
W85-04786	1809	4A	W85-04870	1809	5C	W85-04954	1809	6A	W85-05038	1810	5B
W85-04787	1809	5B	W85-04871	1809	5C	W85-04955	1809	2L	W85-05039	1810	5B
W85-04788	1809	5B	W85-04872	1809	5C	W85-04956	1809	2G	W85-05040	1810	5B

## ACCESSION NUMBER INDEX

W85-05041

W85-05041	1810	5D	W85-05125	1810	2D	W85-05209	1810	5D	W85-05293	1810	5D
W85-05042	1810	5D	W85-05126	1810	5D	W85-05210	1810	5D	W85-05294	1810	5D
W85-05043	1810	5B	W85-05127	1810	5D	W85-05211	1810	5D	W85-05295	1810	5D
W85-05044	1810	5A	W85-05128	1810	5C	W85-05212	1810	5D	W85-05296	1810	5D
W85-05045	1810	2F	W85-05129	1810	7C	W85-05213	1810	5D	W85-05297	1810	5D
W85-05046	1810	5B	W85-05130	1810	2J	W85-05214	1810	5D	W85-05298	1810	5G
W85-05047	1810	5C	W85-05131	1810	2D	W85-05215	1810	5D	W85-05299	1810	5D
W85-05048	1810	5F	W85-05132	1810	5C	W85-05216	1810	5D	W85-05300	1810	5F
W85-05049	1810	5D	W85-05133	1810	5D	W85-05217	1810	5D	W85-05301	1810	8C
W85-05050	1810	5B	W85-05134	1810	2J	W85-05218	1810	5D	W85-05302	1810	5C
W85-05051	1810	5B	W85-05135	1810	5D	W85-05219	1810	5D	W85-05303	1810	2H
W85-05052	1810	2H	W85-05136	1810	5G	W85-05220	1810	5D	W85-05304	1810	2H
W85-05053	1810	2H	W85-05137	1810	5F	W85-05221	1810	5D	W85-05305	1810	5B
W85-05054	1810	5A	W85-05138	1810	6E	W85-05222	1810	5D	W85-05306	1810	3C
W85-05055	1810	2H	W85-05139	1810	5D	W85-05223	1810	5C	W85-05307	1810	8C
W85-05056	1810	5B	W85-05140	1810	5A	W85-05224	1810	5D	W85-05308	1810	5C
W85-05057	1810	5D	W85-05141	1810	5D	W85-05225	1810	5D	W85-05309	1810	2K
W85-05058	1810	5E	W85-05142	1810	5D	W85-05226	1810	5D	W85-05310	1810	5C
W85-05059	1810	3C	W85-05143	1810	2J	W85-05227	1810	5D	W85-05311	1810	6G
W85-05060	1810	5B	W85-05144	1810	2J	W85-05228	1810	5C	W85-05312	1810	2H
W85-05061	1810	5D	W85-05145	1810	2J	W85-05229	1810	5D	W85-05313	1810	5C
W85-05062	1810	2E	W85-05146	1810	2J	W85-05230	1810	5D	W85-05314	1810	5B
W85-05063	1810	7B	W85-05147	1810	2J	W85-05231	1810	5D	W85-05315	1810	5B
W85-05064	1810	2H	W85-05148	1810	2J	W85-05232	1810	5D	W85-05316	1810	2H
W85-05065	1810	2H	W85-05149	1810	2A	W85-05233	1810	5D	W85-05317	1810	2A
W85-05066	1810	2H	W85-05150	1810	2F	W85-05234	1810	5D	W85-05318	1810	2F
W85-05067	1810	6B	W85-05151	1810	5C	W85-05235	1810	5D	W85-05319	1810	2A
W85-05068	1810	2J	W85-05152	1810	2F	W85-05236	1810	5D	W85-05320	1810	2K
W85-05069	1810	2E	W85-05153	1810	2E	W85-05237	1810	5D	W85-05321	1810	2K
W85-05070	1810	2L	W85-05154	1810	2E	W85-05238	1810	5D	W85-05322	1810	2A
W85-05071	1810	5C	W85-05155	1810	4A	W85-05239	1810	5D	W85-05323	1810	8C
W85-05072	1810	2L	W85-05156	1810	5A	W85-05240	1810	5D	W85-05324	1810	5D
W85-05073	1810	2B	W85-05157	1810	5A	W85-05241	1810	5D	W85-05325	1810	2K
W85-05074	1810	2B	W85-05158	1810	2H	W85-05242	1810	5F	W85-05326	1810	2K
W85-05075	1810	2B	W85-05159	1810	2H	W85-05243	1810	5D	W85-05327	1810	2K
W85-05076	1810	2B	W85-05160	1810	5D	W85-05244	1810	5D	W85-05328	1810	8C
W85-05077	1810	2B	W85-05161	1810	5A	W85-05245	1810	5D	W85-05329	1810	2K
W85-05078	1810	2B	W85-05162	1810	6G	W85-05246	1810	5D	W85-05330	1810	6F
W85-05079	1810	2B	W85-05163	1810	2G	W85-05247	1810	5D	W85-05331	1810	5D
W85-05080	1810	2B	W85-05164	1810	2I	W85-05248	1810	5D	W85-05332	1810	2A
W85-05081	1810	2B	W85-05165	1810	3F	W85-05249	1810	5D	W85-05333	1810	5D
W85-05082	1810	2B	W85-05166	1810	3F	W85-05250	1810	5D	W85-05334	1810	6G
W85-05083	1810	2B	W85-05167	1810	2I	W85-05251	1810	5D	W85-05335	1810	5D
W85-05084	1810	2B	W85-05168	1810	3F	W85-05252	1810	5D	W85-05336	1810	5E
W85-05085	1810	2B	W85-05169	1810	2E	W85-05253	1810	5D	W85-05337	1810	8I
W85-05086	1810	2B	W85-05170	1810	2I	W85-05254	1810	5D	W85-05338	1810	2A
W85-05087	1810	2B	W85-05171	1810	2I	W85-05255	1810	5D	W85-05339	1810	2A
W85-05088	1810	2B	W85-05172	1810	2E	W85-05256	1810	5D	W85-05340	1810	2A
W85-05089	1810	2B	W85-05173	1810	2J	W85-05257	1810	5D	W85-05341	1810	2A
W85-05090	1810	2B	W85-05174	1810	2J	W85-05258	1810	5D	W85-05342	1810	2A
W85-05091	1810	2B	W85-05175	1810	2J	W85-05259	1810	5D	W85-05343	1810	2A
W85-05092	1810	2B	W85-05176	1810	2J	W85-05260	1810	5F	W85-05344	1810	2A
W85-05093	1810	2B	W85-05177	1810	2H	W85-05261	1810	5B	W85-05345	1810	2A
W85-05094	1810	2B	W85-05178	1810	2G	W85-05262	1810	5D	W85-05346	1810	2I
W85-05095	1810	2D	W85-05179	1810	2G	W85-05263	1810	5D	W85-05347	1810	4A
W85-05096	1810	2B	W85-05180	1810	2G	W85-05264	1810	5D	W85-05348	1810	5G
W85-05097	1810	2B	W85-05181	1810	2F	W85-05265	1810	5D	W85-05349	1810	3B
W85-05098	1810	2E	W85-05182	1810	2G	W85-05266	1810	5D	W85-05350	1810	7B
W85-05099	1810	2D	W85-05183	1810	2G	W85-05267	1810	5D	W85-05351	1810	2F
W85-05100	1810	5B	W85-05184	1810	2G	W85-05268	1810	5D	W85-05352	1810	5D
W85-05101	1810	2K	W85-05185	1810	2G	W85-05269	1810	5D	W85-05353	1810	2L
W85-05102	1810	5A	W85-05186	1810	2G	W85-05270	1810	5D	W85-05354	1810	2A
W85-05103	1810	5B	W85-05187	1810	2G	W85-05271	1810	5D	W85-05355	1810	2K
W85-05104	1810	5A	W85-05188	1810	2G	W85-05272	1810	5D	W85-05356	1810	2G
W85-05105	1810	5C	W85-05189	1810	2G	W85-05273	1810	5D	W85-05357	1810	2G
W85-05106	1810	5C	W85-05190	1810	2I	W85-05274	1810	5D	W85-05358	1810	2A
W85-05107	1810	5C	W85-05191	1810	3B	W85-05275	1810	5D	W85-05359	1810	2B
W85-05108	1810	5C	W85-05192	1810	6G	W85-05276	1810	5D	W85-05360	1810	5B
W85-05109	1810	5B	W85-05193	1810	7B	W85-05277	1810	6C	W85-05361	1810	5B
W85-05110	1810	5C	W85-05194	1810	5D	W85-05278	1810	5D	W85-05362	1810	5B
W85-05111	1810	5B	W85-05195	1810	5D	W85-05279	1810	5D	W85-05363	1810	2B
W85-05112	1810	2C	W85-05196	1810	5D	W85-05280	1810	5D	W85-05364	1810	5D
W85-05113	1810	3A	W85-05197	1810	5D	W85-05281	1810	5D	W85-05365	1810	5D
W85-05114	1810	3A	W85-05198	1810	5D	W85-05282	1810	5D	W85-05366	1810	5D
W85-05115	1810	3A	W85-05199	1810	5D	W85-05283	1810	5D	W85-05367	1810	5E
W85-05116	1810	5D	W85-05200	1810	5D	W85-05284	1810	5D	W85-05368	1810	5E
W85-05117	1810	5B	W85-05201	1810	5D	W85-05285	1810	5D	W85-05369	1810	5B
W85-05118	1810	5B	W85-05202	1810	5D	W85-05286	1810	5D	W85-05370	1810	5E
W85-05119	1810	5A	W85-05203	1810	5D	W85-05287	1810	5D	W85-05371	1810	5E
W85-05120	1810	2H	W85-05204	1810	5D	W85-05288	1810	5D	W85-05372	1810	5E
W85-05121	1810	2L	W85-05205	1810	5D	W85-05289	1810	5D	W85-05373	1810	5E
W85-05122	1810	2K	W85-05206	1810	5E	W85-05290	1810	5D	W85-05374	1810	5E
W85-05123	1810	5C	W85-05207	1810	5D	W85-05291	1810	5D	W85-05375	1810	5E
W85-05124	1810	5C	W85-05208	1810	5D	W85-05292	1810	5D	W85-05376	1810	5E

## ACCESSION NUMBER INDEX

W85-05712

W85-05377	1810	5E	W85-05461	1810	2E	W85-05545	1810	6G	W85-05629	1810	5A
W85-05378	1810	5E	W85-05462	1810	2B	W85-05546	1810	8C	W85-05630	1810	2H
W85-05379	1810	5B	W85-05463	1810	5E	W85-05547	1810	5D	W85-05631	1810	2H
W85-05380	1810	5E	W85-05464	1810	5C	W85-05548	1810	5D	W85-05632	1810	2H
W85-05381	1810	5G	W85-05465	1810	5A	W85-05549	1810	5D	W85-05633	1810	5C
W85-05382	1810	5E	W85-05466	1810	5C	W85-05550	1810	5D	W85-05634	1810	2H
W85-05383	1810	5E	W85-05467	1810	4D	W85-05551	1810	5D	W85-05635	1810	2H
W85-05384	1810	5E	W85-05468	1810	2L	W85-05552	1810	5D	W85-05636	1810	2H
W85-05385	1810	5G	W85-05469	1810	8D	W85-05553	1810	5D	W85-05637	1810	2H
W85-05386	1810	5E	W85-05470	1810	5G	W85-05554	1810	5D	W85-05638	1810	2H
W85-05387	1810	5E	W85-05471	1810	5A	W85-05555	1810	5D	W85-05639	1810	2H
W85-05388	1810	5E	W85-05472	1810	5A	W85-05556	1810	5D	W85-05640	1810	2H
W85-05389	1810	5E	W85-05473	1810	5F	W85-05557	1810	5D	W85-05641	1810	6G
W85-05390	1810	5E	W85-05474	1810	5F	W85-05558	1810	5D	W85-05642	1810	2H
W85-05391	1810	5E	W85-05475	1810	5F	W85-05559	1810	5D	W85-05643	1810	2H
W85-05392	1810	5E	W85-05476	1810	5F	W85-05560	1810	5D	W85-05644	1810	2H
W85-05393	1810	5D	W85-05477	1810	5F	W85-05561	1810	5D	W85-05645	1810	2H
W85-05394	1810	5E	W85-05478	1810	5G	W85-05562	1810	5D	W85-05646	1810	5G
W85-05395	1810	5E	W85-05479	1810	5F	W85-05563	1810	5D	W85-05647	1810	2H
W85-05396	1810	5D	W85-05480	1810	4A	W85-05564	1810	5D	W85-05648	1810	2H
W85-05397	1810	5D	W85-05481	1810	5D	W85-05565	1810	5D	W85-05649	1810	2H
W85-05398	1810	5D	W85-05482	1810	8A	W85-05566	1810	5D	W85-05650	1810	2K
W85-05399	1810	5D	W85-05483	1810	3D	W85-05567	1810	5D	W85-05651	1810	2H
W85-05400	1810	5D	W85-05484	1810	4A	W85-05568	1810	5D	W85-05652	1810	2H
W85-05401	1810	5D	W85-05485	1810	8A	W85-05569	1810	5D	W85-05653	1810	2H
W85-05402	1810	5D	W85-05486	1810	6A	W85-05570	1810	5A	W85-05654	1810	2H
W85-05403	1810	5D	W85-05487	1810	5D	W85-05571	1810	5G	W85-05655	1810	2H
W85-05404	1810	5D	W85-05488	1810	6B	W85-05572	1810	2A	W85-05656	1810	2J
W85-05405	1810	5D	W85-05489	1810	6B	W85-05573	1810	5D	W85-05657	1810	2K
W85-05406	1810	5D	W85-05490	1810	6A	W85-05574	1810	5D	W85-05658	1810	6G
W85-05407	1810	5D	W85-05491	1810	6A	W85-05575	1810	5C	W85-05659	1810	2C
W85-05408	1810	5D	W85-05492	1810	5F	W85-05576	1810	8A	W85-05660	1810	5C
W85-05409	1810	5D	W85-05493	1810	6A	W85-05577	1810	10D	W85-05661	1810	5A
W85-05410	1810	5D	W85-05494	1810	5C	W85-05578	1810	7B	W85-05662	1810	2E
W85-05411	1810	5D	W85-05495	1810	6C	W85-05579	1810	5D	W85-05663	1810	6G
W85-05412	1810	5D	W85-05496	1810	5B	W85-05580	1810	2L	W85-05664	1810	2J
W85-05413	1810	5D	W85-05497	1810	5B	W85-05581	1810	5C	W85-05665	1810	2H
W85-05414	1810	5D	W85-05498	1810	2F	W85-05582	1810	5A	W85-05666	1810	6G
W85-05415	1810	5D	W85-05499	1810	2F	W85-05583	1810	5B	W85-05667	1810	2H
W85-05416	1810	5D	W85-05500	1810	2E	W85-05584	1810	5B	W85-05668	1810	2J
W85-05417	1810	5D	W85-05501	1810	2H	W85-05585	1810	5B	W85-05669	1810	2H
W85-05418	1810	5D	W85-05502	1810	2A	W85-05586	1810	5B	W85-05670	1810	2H
W85-05419	1810	5D	W85-05503	1810	2F	W85-05587	1810	5C	W85-05671	1810	2J
W85-05420	1810	5D	W85-05504	1810	2C	W85-05588	1810	5C	W85-05672	1810	2H
W85-05421	1810	5D	W85-05505	1810	2F	W85-05589	1810	5C	W85-05673	1810	2H
W85-05422	1810	5D	W85-05506	1810	5D	W85-05590	1810	5C	W85-05674	1810	2H
W85-05423	1810	5D	W85-05507	1810	2H	W85-05591	1810	5C	W85-05675	1810	2I
W85-05424	1810	5D	W85-05508	1810	2H	W85-05592	1810	5C	W85-05676	1810	2E
W85-05425	1810	5D	W85-05509	1810	2H	W85-05593	1810	5A	W85-05677	1810	2H
W85-05426	1810	5D	W85-05510	1810	5D	W85-05594	1810	5A	W85-05678	1810	5A
W85-05427	1810	5D	W85-05511	1810	5F	W85-05595	1810	2F	W85-05679	1810	5G
W85-05428	1810	5D	W85-05512	1810	2H	W85-05596	1810	8F	W85-05680	1810	2H
W85-05429	1810	5D	W85-05513	1810	5D	W85-05597	1810	3A	W85-05681	1810	2E
W85-05430	1810	5D	W85-05514	1810	5F	W85-05598	1810	8G	W85-05682	1810	6G
W85-05431	1810	5D	W85-05515	1810	5G	W85-05599	1810	8C	W85-05683	1810	5C
W85-05432	1810	5D	W85-05516	1810	2L	W85-05600	1810	5C	W85-05684	1810	2H
W85-05433	1810	5D	W85-05517	1810	5F	W85-05601	1810	5B	W85-05685	1810	2H
W85-05434	1810	5D	W85-05518	1810	5A	W85-05602	1810	2H	W85-05686	1810	5C
W85-05435	1810	5D	W85-05519	1810	5A	W85-05603	1810	2H	W85-05687	1810	5B
W85-05436	1810	5D	W85-05520	1810	5A	W85-05604	1810	5B	W85-05688	1810	5C
W85-05437	1810	5D	W85-05521	1810	5F	W85-05605	1810	5B	W85-05689	1810	2L
W85-05438	1810	5D	W85-05522	1810	6C	W85-05606	1810	2H	W85-05690	1810	5B
W85-05439	1810	5D	W85-05523	1810	4A	W85-05607	1810	2H	W85-05691	1810	5B
W85-05440	1810	5D	W85-05524	1810	5A	W85-05608	1810	2H	W85-05692	1810	5C
W85-05441	1810	5D	W85-05525	1810	5A	W85-05609	1810	2H	W85-05693	1810	5C
W85-05442	1810	5D	W85-05526	1810	5A	W85-05610	1810	5G	W85-05694	1810	7B
W85-05443	1810	5D	W85-05527	1810	2J	W85-05611	1810	5C	W85-05695	1810	5D
W85-05444	1810	2H	W85-05528	1810	2G	W85-05612	1810	5C	W85-05696	1810	5B
W85-05445	1810	5D	W85-05529	1810	2J	W85-05613	1810	2L	W85-05697	1810	5C
W85-05446	1810	5C	W85-05530	1810	2F	W85-05614	1810	5B	W85-05698	1810	5D
W85-05447	1810	5D	W85-05531	1810	2F	W85-05615	1810	5C	W85-05699	1810	5C
W85-05448	1810	5B	W85-05532	1810	2F	W85-05616	1810	2L	W85-05700	1810	5B
W85-05449	1810	5D	W85-05533	1810	5F	W85-05617	1810	2J	W85-05701	1810	5D
W85-05450	1810	5B	W85-05534	1810	5B	W85-05618	1810	2J	W85-05702	1810	5B
W85-05451	1810	5F	W85-05535	1810	2F	W85-05619	1810	5C	W85-05703	1810	2L
W85-05452	1810	5F	W85-05536	1810	2F	W85-05620	1810	5C	W85-05704	1810	2H
W85-05453	1810	5F	W85-05537	1810	2F	W85-05621	1810	5C	W85-05705	1810	2L
W85-05454	1810	2J	W85-05538	1810	2E	W85-05622	1810	5A	W85-05706	1810	2L
W85-05455	1810	8B	W85-05539	1810	2A	W85-05623	1810	5C	W85-05707	1810	2L
W85-05456	1810	8C	W85-05540	1810	4A	W85-05624	1810	5C	W85-05708	1810	5C
W85-05457	1810	8D	W85-05541	1810	2B	W85-05625	1810	5B	W85-05709	1810	5C
W85-05458	1810	2C	W85-05542	1810	8B	W85-05626	1810	5C	W85-05710	1810	2H
W85-05459	1810	2E	W85-05543	1810	2C	W85-05627	1810	2J	W85-05711	1810	6G
W85-05460	1810	2E	W85-05544	1810	8A	W85-05628	1810	5C	W85-05712	1810	5C

## ACCESSION NUMBER INDEX

W85-05713

W85-05713	1810	2L	W85-05797	1810	2B	W85-05881	1811	5C	W85-05965	1811	2J
W85-05714	1810	5C	W85-05798	1810	5B	W85-05882	1811	5C	W85-05966	1811	4D
W85-05715	1810	5C	W85-05799	1810	2F	W85-05883	1811	5C	W85-05967	1811	2J
W85-05716	1810	2K	W85-05800	1810	2F	W85-05884	1811	5C	W85-05968	1811	5B
W85-05717	1810	2H	W85-05801	1810	2D	W85-05885	1811	5C	W85-05969	1811	5B
W85-05718	1810	2H	W85-05802	1810	2B	W85-05886	1811	5C	W85-05970	1811	5B
W85-05719	1810	5C	W85-05803	1810	2F	W85-05887	1811	5C	W85-05971	1811	5G
W85-05720	1810	2K	W85-05804	1810	2G	W85-05888	1811	5C	W85-05972	1811	2J
W85-05721	1810	2H	W85-05805	1810	2E	W85-05889	1811	5C	W85-05973	1811	5B
W85-05722	1810	6G	W85-05806	1810	2C	W85-05890	1811	5C	W85-05974	1811	5B
W85-05723	1810	5C	W85-05807	1810	2H	W85-05891	1811	5C	W85-05975	1811	5B
W85-05724	1810	2H	W85-05808	1810	5B	W85-05892	1811	5C	W85-05976	1811	5C
W85-05725	1810	5G	W85-05809	1810	5C	W85-05893	1811	5C	W85-05977	1811	5D
W85-05726	1810	5C	W85-05810	1810	5C	W85-05894	1811	5C	W85-05978	1811	5G
W85-05727	1810	2H	W85-05811	1810	5A	W85-05895	1811	5A	W85-05979	1811	5G
W85-05728	1810	2H	W85-05812	1810	5C	W85-05896	1811	5C	W85-05980	1811	6B
W85-05729	1810	2J	W85-05813	1810	5C	W85-05897	1811	5C	W85-05981	1811	5G
W85-05730	1810	2J	W85-05814	1810	5A	W85-05898	1811	5C	W85-05982	1811	6E
W85-05731	1810	4C	W85-05815	1810	8F	W85-05899	1811	5C	W85-05983	1811	5D
W85-05732	1810	2F	W85-05816	1810	8A	W85-05900	1811	5C	W85-05984	1811	8D
W85-05733	1810	2C	W85-05817	1810	8A	W85-05901	1811	2E	W85-05985	1811	8A
W85-05734	1810	2H	W85-05818	1810	8A	W85-05902	1811	2E	W85-05986	1811	5G
W85-05735	1810	2C	W85-05819	1810	8B	W85-05903	1811	2A	W85-05987	1811	8B
W85-05736	1810	2L	W85-05820	1810	8A	W85-05904	1811	2A	W85-05988	1811	8B
W85-05737	1810	2H	W85-05821	1810	8A	W85-05905	1811	2E	W85-05989	1811	8E
W85-05738	1810	2H	W85-05822	1810	2F	W85-05906	1811	2E	W85-05990	1811	8D
W85-05739	1810	2H	W85-05823	1810	8C	W85-05907	1811	2E	W85-05991	1811	5F
W85-05740	1810	2H	W85-05824	1810	6C	W85-05908	1811	2E	W85-05992	1811	5F
W85-05741	1810	5A	W85-05825	1810	8D	W85-05909	1811	6G	W85-05993	1811	3A
W85-05742	1810	5B	W85-05826	1810	5D	W85-05910	1811	5A	W85-05994	1811	5D
W85-05743	1810	5C	W85-05827	1810	5D	W85-05911	1811	5A	W85-05995	1811	5C
W85-05744	1810	5C	W85-05828	1810	5F	W85-05912	1811	5G	W85-05996	1811	2J
W85-05745	1810	5B	W85-05829	1810	5D	W85-05913	1811	5F	W85-05997	1811	2K
W85-05746	1810	2H	W85-05830	1810	2E	W85-05914	1811	5F	W85-05998	1811	2H
W85-05747	1810	2H	W85-05831	1810	2E	W85-05915	1811	6E	W85-05999	1811	2H
W85-05748	1810	2H	W85-05832	1810	2E	W85-05916	1811	5F	W85-06000	1811	5B
W85-05749	1810	2L	W85-05833	1810	6E	W85-05917	1811	3F	W85-06001	1811	5C
W85-05750	1810	5C	W85-05834	1810	5D	W85-05918	1811	3F	W85-06002	1811	5A
W85-05751	1810	5C	W85-05835	1810	5D	W85-05919	1811	2I	W85-06003	1811	5C
W85-05752	1810	2L	W85-05836	1810	5G	W85-05920	1811	2I	W85-06004	1811	2H
W85-05753	1810	2H	W85-05837	1810	2F	W85-05921	1811	2I	W85-06005	1811	2K
W85-05754	1810	6G	W85-05838	1810	2F	W85-05922	1811	3F	W85-06006	1811	2H
W85-05755	1810	2H	W85-05839	1810	2F	W85-05923	1811	3F	W85-06007	1811	6G
W85-05756	1810	2H	W85-05840	1810	5C	W85-05924	1811	3F	W85-06008	1811	2H
W85-05757	1810	2H	W85-05841	1810	2F	W85-05925	1811	3C	W85-06009	1811	5G
W85-05758	1810	2H	W85-05842	1810	2F	W85-05926	1811	7B	W85-06010	1811	5B
W85-05759	1810	2H	W85-05843	1810	2F	W85-05927	1811	3F	W85-06011	1811	2H
W85-05760	1810	2H	W85-05844	1810	2F	W85-05928	1811	5B	W85-06012	1811	2H
W85-05761	1810	2K	W85-05845	1810	2F	W85-05929	1811	3F	W85-06013	1811	5B
W85-05762	1810	2F	W85-05846	1810	2F	W85-05930	1811	3F	W85-06014	1811	5B
W85-05763	1810	5B	W85-05847	1810	2F	W85-05931	1811	2I	W85-06015	1811	5A
W85-05764	1810	5C	W85-05848	1811	5C	W85-05932	1811	2I	W85-06016	1811	5C
W85-05765	1810	5B	W85-05849	1811	5C	W85-05933	1811	3F	W85-06017	1811	5G
W85-05766	1810	2K	W85-05850	1811	5C	W85-05934	1811	2G	W85-06018	1811	5D
W85-05767	1810	6G	W85-05851	1811	5C	W85-05935	1811	3C	W85-06019	1811	5B
W85-05768	1810	6E	W85-05852	1811	5C	W85-05936	1811	2D	W85-06020	1811	5F
W85-05769	1810	6E	W85-05853	1811	5C	W85-05937	1811	2G	W85-06021	1811	6F
W85-05770	1810	5D	W85-05854	1811	1B	W85-05938	1811	3F	W85-06022	1811	2E
W85-05771	1810	5D	W85-05855	1811	2A	W85-05939	1811	5B	W85-06023	1811	8D
W85-05772	1810	5D	W85-05856	1811	2E	W85-05940	1811	5B	W85-06024	1811	5B
W85-05773	1810	5A	W85-05857	1811	2F	W85-05941	1811	5C	W85-06025	1811	8A
W85-05774	1810	5A	W85-05858	1811	2F	W85-05942	1811	5G	W85-06026	1811	4A
W85-05775	1810	2H	W85-05859	1811	2J	W85-05943	1811	5G	W85-06027	1811	6A
W85-05776	1810	5D	W85-05860	1811	5C	W85-05944	1811	5G	W85-06028	1811	6E
W85-05777	1810	3C	W85-05861	1811	2L	W85-05945	1811	5B	W85-06029	1811	2E
W85-05778	1810	2E	W85-05862	1811	5A	W85-05946	1811	5G	W85-06030	1811	6E
W85-05779	1810	2E	W85-05863	1811	5C	W85-05947	1811	5G	W85-06031	1811	6C
W85-05780	1810	6C	W85-05864	1811	2H	W85-05948	1811	5G	W85-06032	1811	6E
W85-05781	1810	8B	W85-05865	1811	5B	W85-05949	1811	5G	W85-06033	1811	4A
W85-05782	1810	2E	W85-05866	1811	5C	W85-05950	1811	5G	W85-06034	1811	6A
W85-05783	1810	2J	W85-05867	1811	5C	W85-05951	1811	4D	W85-06035	1811	2E
W85-05784	1810	2E	W85-05868	1811	5C	W85-05952	1811	5G	W85-06036	1811	8C
W85-05785	1810	2L	W85-05869	1811	2H	W85-05953	1811	5G	W85-06037	1811	2E
W85-05786	1810	2E	W85-05870	1811	2I	W85-05954	1811	5G	W85-06038	1811	2E
W85-05787	1810	2H	W85-05871	1811	2I	W85-05955	1811	5G	W85-06039	1811	2E
W85-05788	1810	2E	W85-05872	1811	5B	W85-05956	1811	5G	W85-06040	1811	2E
W85-05789	1810	6B	W85-05873	1811	2H	W85-05957	1811	5G	W85-06041	1811	2F
W85-05790	1810	5B	W85-05874	1811	2I	W85-05958	1811	5A	W85-06042	1811	2J
W85-05791	1810	2C	W85-05875	1811	5C	W85-05959	1811	5G	W85-06043	1811	8A
W85-05792	1810	2I	W85-05876	1811	2H	W85-05960	1811	5G	W85-06044	1811	2J
W85-05793	1810	2F	W85-05877	1811	6G	W85-05961	1811	5G	W85-06045	1811	2K
W85-05794	1810	2F	W85-05878	1811	6G	W85-05962	1811	5B	W85-06046	1811	2F
W85-05795	1810	2B	W85-05879	1811	6G	W85-05963	1811	5G	W85-06047	1811	2F
W85-05796	1810	2F	W85-05880	1811	2H	W85-05964	1811	5G	W85-06048	1811	2F

## ACCESSION NUMBER INDEX

W85-06384

W85-06049	1811	5B	W85-06133	1811	6G	W85-06217	1812	5F	W85-06301	1812	2F
W85-06050	1811	5B	W85-06134	1811	2H	W85-06218	1812	5F	W85-06302	1812	2J
W85-06051	1811	2B	W85-06135	1811	2H	W85-06219	1812	5C	W85-06303	1812	2E
W85-06052	1811	2A	W85-06136	1811	2I	W85-06220	1812	5D	W85-06304	1812	6A
W85-06053	1811	4B	W85-06137	1811	5B	W85-06221	1812	5C	W85-06305	1812	6E
W85-06054	1811	2A	W85-06138	1811	5B	W85-06222	1812	5F	W85-06306	1812	6A
W85-06055	1811	2A	W85-06139	1811	5A	W85-06223	1812	5D	W85-06307	1812	6A
W85-06056	1811	5A	W85-06140	1811	5B	W85-06224	1812	5A	W85-06308	1812	9A
W85-06057	1811	5A	W85-06141	1811	5A	W85-06225	1812	5A	W85-06309	1812	6E
W85-06058	1811	5D	W85-06142	1811	5A	W85-06226	1812	2K	W85-06310	1812	5D
W85-06059	1811	2I	W85-06143	1811	5C	W85-06227	1812	2H	W85-06311	1812	5C
W85-06060	1811	2K	W85-06144	1811	2H	W85-06228	1812	5D	W85-06312	1812	5D
W85-06061	1811	5F	W85-06145	1811	5B	W85-06229	1812	5F	W85-06313	1812	2F
W85-06062	1811	8F	W85-06146	1811	2H	W85-06230	1812	5D	W85-06314	1812	8B
W85-06063	1811	8D	W85-06147	1811	5F	W85-06231	1812	5A	W85-06315	1812	3F
W85-06064	1811	5G	W85-06148	1811	5B	W85-06232	1812	5G	W85-06316	1812	3B
W85-06065	1811	4C	W85-06149	1811	5B	W85-06233	1812	2E	W85-06317	1812	5B
W85-06066	1811	6G	W85-06150	1811	2J	W85-06234	1812	4B	W85-06318	1812	6C
W85-06067	1811	6G	W85-06151	1811	4A	W85-06235	1812	6E	W85-06319	1812	2F
W85-06068	1811	5C	W85-06152	1811	2G	W85-06236	1812	6A	W85-06320	1812	9D
W85-06069	1811	4D	W85-06153	1811	2J	W85-06237	1812	2J	W85-06321	1812	6G
W85-06070	1811	2J	W85-06154	1811	2G	W85-06238	1812	5C	W85-06322	1812	9D
W85-06071	1811	2J	W85-06155	1811	5B	W85-06239	1812	2H	W85-06323	1812	4A
W85-06072	1811	8A	W85-06156	1811	5G	W85-06240	1812	4A	W85-06324	1812	5F
W85-06073	1811	2G	W85-06157	1811	2E	W85-06241	1812	5F	W85-06325	1812	5C
W85-06074	1811	4B	W85-06158	1811	2I	W85-06242	1812	4A	W85-06326	1812	3F
W85-06075	1811	5B	W85-06159	1811	2L	W85-06243	1812	5G	W85-06327	1812	6E
W85-06076	1811	4C	W85-06160	1811	5B	W85-06244	1812	2J	W85-06328	1812	2E
W85-06077	1811	4A	W85-06161	1811	2F	W85-06245	1812	2B	W85-06329	1812	5A
W85-06078	1811	2G	W85-06162	1811	2J	W85-06246	1812	6A	W85-06330	1812	5B
W85-06079	1811	2G	W85-06163	1811	5A	W85-06247	1812	2A	W85-06331	1812	2A
W85-06080	1811	2F	W85-06164	1811	5A	W85-06248	1812	6E	W85-06332	1812	5C
W85-06081	1811	2D	W85-06165	1811	2K	W85-06249	1812	5B	W85-06333	1812	5C
W85-06082	1811	2J	W85-06166	1811	5D	W85-06250	1812	2H	W85-06334	1812	6F
W85-06083	1811	3F	W85-06167	1811	5C	W85-06251	1812	5A	W85-06335	1812	6E
W85-06084	1811	3F	W85-06168	1811	5C	W85-06252	1812	5A	W85-06336	1812	6A
W85-06085	1811	3F	W85-06169	1811	5C	W85-06253	1812	5A	W85-06337	1812	2A
W85-06086	1811	5D	W85-06170	1811	5C	W85-06254	1812	5A	W85-06338	1812	6E
W85-06087	1811	2G	W85-06171	1811	5C	W85-06255	1812	5A	W85-06339	1812	5A
W85-06088	1811	3F	W85-06172	1811	8A	W85-06256	1812	5A	W85-06340	1812	6A
W85-06089	1811	2B	W85-06173	1811	8A	W85-06257	1812	5A	W85-06341	1812	5G
W85-06090	1811	2J	W85-06174	1812	8D	W85-06258	1812	5B	W85-06342	1812	5C
W85-06091	1811	3F	W85-06175	1812	8E	W85-06259	1812	5B	W85-06343	1812	5C
W85-06092	1811	3F	W85-06176	1812	5C	W85-06260	1812	5G	W85-06344	1812	5G
W85-06093	1811	3F	W85-06177	1812	2H	W85-06261	1812	5B	W85-06345	1812	2D
W85-06094	1811	7B	W85-06178	1812	6E	W85-06262	1812	5D	W85-06346	1812	2B
W85-06095	1811	2E	W85-06179	1812	5B	W85-06263	1812	5D	W85-06347	1812	6D
W85-06096	1811	3F	W85-06180	1812	5A	W85-06264	1812	5G	W85-06348	1812	5G
W85-06097	1811	2I	W85-06181	1812	5B	W85-06265	1812	5A	W85-06349	1812	5G
W85-06098	1811	2G	W85-06182	1812	2D	W85-06266	1812	5C	W85-06350	1812	5G
W85-06099	1811	3F	W85-06183	1812	2K	W85-06267	1812	5A	W85-06351	1812	5G
W85-06100	1811	2I	W85-06184	1812	2K	W85-06268	1812	5C	W85-06352	1812	5C
W85-06101	1811	2H	W85-06185	1812	2I	W85-06269	1812	5C	W85-06353	1812	5G
W85-06102	1811	5F	W85-06186	1812	3F	W85-06270	1812	2L	W85-06354	1812	6G
W85-06103	1811	2I	W85-06187	1812	5G	W85-06271	1812	5C	W85-06355	1812	5D
W85-06104	1811	2I	W85-06188	1812	7B	W85-06272	1812	5A	W85-06356	1812	5D
W85-06105	1811	2I	W85-06189	1812	2D	W85-06273	1812	5B	W85-06357	1812	5D
W85-06106	1811	2I	W85-06190	1812	2I	W85-06274	1812	5C	W85-06358	1812	5B
W85-06107	1811	8A	W85-06191	1812	2D	W85-06275	1812	5C	W85-06359	1812	5C
W85-06108	1811	2J	W85-06192	1812	2I	W85-06276	1812	5F	W85-06360	1812	2I
W85-06109	1811	8A	W85-06193	1812	2I	W85-06277	1812	5C	W85-06361	1812	5C
W85-06110	1811	2E	W85-06194	1812	2B	W85-06278	1812	5B	W85-06362	1812	5C
W85-06111	1811	8A	W85-06195	1812	2I	W85-06279	1812	2G	W85-06363	1812	5G
W85-06112	1811	8A	W85-06196	1812	2D	W85-06280	1812	3F	W85-06364	1812	5B
W85-06113	1811	2J	W85-06197	1812	7B	W85-06281	1812	3F	W85-06365	1812	6A
W85-06114	1811	2J	W85-06198	1812	2D	W85-06282	1812	3C	W85-06366	1812	6E
W85-06115	1811	2J	W85-06199	1812	2D	W85-06283	1812	5A	W85-06367	1812	6E
W85-06116	1811	8A	W85-06200	1812	2I	W85-06284	1812	5C	W85-06368	1812	2J
W85-06117	1811	2J	W85-06201	1812	2D	W85-06285	1812	2H	W85-06369	1812	2L
W85-06118	1811	2J	W85-06202	1812	2D	W85-06286	1812	5B	W85-06370	1812	2D
W85-06119	1811	2J	W85-06203	1812	2D	W85-06287	1812	6A	W85-06371	1812	2I
W85-06120	1811	2J	W85-06204	1812	3F	W85-06288	1812	5C	W85-06372	1812	5C
W85-06121	1811	8A	W85-06205	1812	3F	W85-06289	1812	5B	W85-06373	1812	5B
W85-06122	1811	8A	W85-06206	1812	2I	W85-06290	1812	5B	W85-06374	1812	5C
W85-06123	1811	5F	W85-06207	1812	2J	W85-06291	1812	5B	W85-06375	1812	5C
W85-06124	1811	5F	W85-06208	1812	2G	W85-06292	1812	5B	W85-06376	1812	2K
W85-06125	1811	4A	W85-06209	1812	2G	W85-06293	1812	5B	W85-06377	1812	5C
W85-06126	1811	5A	W85-06210	1812	2L	W85-06294	1812	5B	W85-06378	1812	6G
W85-06127	1811	6G	W85-06211	1812	2L	W85-06295	1812	5C	W85-06379	1812	5C
W85-06128	1811	8A	W85-06212	1812	5F	W85-06296	1812	5C	W85-06380	1812	2H
W85-06129	1811	6B	W85-06213	1812	5D	W85-06297	1812	2L	W85-06381	1812	5C
W85-06130	1811	8C	W85-06214	1812	5F	W85-06298	1812	2H	W85-06382	1812	5C
W85-06131	1811	6A	W85-06215	1812	2G	W85-06299	1812	5D	W85-06383	1812	5C
W85-06132	1811	6G	W85-06216	1812	5C	W85-06300	1812	6E	W85-06384	1812	5C

## ACCESSION NUMBER INDEX

W85-06385

W85-06385	1812	6G	W85-06469	1812	5A	W85-06553	1812	2E	W85-06637	1812	2B
W85-06386	1812	5C	W85-06470	1812	5B	W85-06554	1812	4A	W85-06638	1812	2E
W85-06387	1812	2E	W85-06471	1812	5G	W85-06555	1812	5G	W85-06639	1812	2A
W85-06388	1812	5C	W85-06472	1812	5A	W85-06556	1812	5D	W85-06640	1812	2E
W85-06389	1812	2H	W85-06473	1812	5A	W85-06557	1812	5C	W85-06641	1812	2E
W85-06390	1812	5C	W85-06474	1812	5A	W85-06558	1812	5B	W85-06642	1812	2E
W85-06391	1812	2H	W85-06475	1812	5C	W85-06559	1812	6C	W85-06643	1812	2E
W85-06392	1812	2H	W85-06476	1812	2L	W85-06560	1812	8B	W85-06644	1812	2G
W85-06393	1812	5C	W85-06477	1812	5D	W85-06561	1812	2E	W85-06645	1812	2E
W85-06394	1812	5C	W85-06478	1812	5C	W85-06562	1812	4B	W85-06646	1812	2E
W85-06395	1812	2H	W85-06479	1812	2J	W85-06563	1812	6G	W85-06647	1812	2E
W85-06396	1812	5C	W85-06480	1812	2H	W85-06564	1812	5B	W85-06648	1812	5F
W85-06397	1812	2H	W85-06481	1812	2J	W85-06565	1812	5C	W85-06649	1812	5B
W85-06398	1812	2H	W85-06482	1812	2J	W85-06566	1812	5C	W85-06650	1812	5A
W85-06399	1812	5C	W85-06483	1812	5B	W85-06567	1812	6G	W85-06651	1812	2H
W85-06400	1812	2H	W85-06484	1812	5B	W85-06568	1812	6G	W85-06652	1812	2H
W85-06401	1812	2H	W85-06485	1812	5A	W85-06569	1812	5B	W85-06653	1812	2H
W85-06402	1812	2H	W85-06486	1812	8I	W85-06570	1812	5A	W85-06654	1812	2H
W85-06403	1812	5C	W85-06487	1812	5C	W85-06571	1812	5A	W85-06655	1812	2K
W85-06404	1812	5C	W85-06488	1812	2H	W85-06572	1812	5A	W85-06656	1812	5D
W85-06405	1812	6G	W85-06489	1812	5B	W85-06573	1812	5F	W85-06657	1812	5C
W85-06406	1812	5C	W85-06490	1812	5B	W85-06574	1812	5C	W85-06658	1812	5C
W85-06407	1812	2H	W85-06491	1812	5F	W85-06575	1812	5F	W85-06659	1812	5D
W85-06408	1812	2H	W85-06492	1812	5F	W85-06576	1812	8B	W85-06660	1812	5C
W85-06409	1812	2L	W85-06493	1812	5F	W85-06577	1812	5F	W85-06661	1812	5C
W85-06410	1812	5C	W85-06494	1812	5A	W85-06578	1812	2L	W85-06662	1812	5B
W85-06411	1812	2L	W85-06495	1812	6B	W85-06579	1812	8C	W85-06663	1812	5F
W85-06412	1812	5B	W85-06496	1812	6D	W85-06580	1812	2J	W85-06664	1812	5F
W85-06413	1812	5C	W85-06497	1812	6D	W85-06581	1812	5A	W85-06665	1812	5A
W85-06414	1812	5C	W85-06498	1812	6D	W85-06582	1812	5F	W85-06666	1812	2D
W85-06415	1812	2H	W85-06499	1812	2G	W85-06583	1812	6E	W85-06667	1812	2D
W85-06416	1812	2H	W85-06500	1812	2G	W85-06584	1812	5F	W85-06668	1812	2D
W85-06417	1812	5B	W85-06501	1812	2G	W85-06585	1812	5F	W85-06669	1812	2D
W85-06418	1812	2H	W85-06502	1812	2A	W85-06586	1812	5F	W85-06670	1812	2D
W85-06419	1812	6B	W85-06503	1812	2A	W85-06587	1812	5F	W85-06671	1812	2D
W85-06420	1812	2J	W85-06504	1812	2E	W85-06588	1812	5F	W85-06672	1812	2D
W85-06421	1812	2J	W85-06505	1812	2B	W85-06589	1812	7B	W85-06673	1812	2D
W85-06422	1812	2J	W85-06506	1812	2J	W85-06590	1812	8E	W85-06674	1812	2D
W85-06423	1812	6G	W85-06507	1812	2F	W85-06591	1812	8D	W85-06675	1812	2D
W85-06424	1812	6G	W85-06508	1812	2A	W85-06592	1812	8E	W85-06676	1812	2D
W85-06425	1812	5C	W85-06509	1812	2H	W85-06593	1812	8E	W85-06677	1812	2E
W85-06426	1812	5B	W85-06510	1812	2F	W85-06594	1812	8D	W85-06678	1812	2D
W85-06427	1812	2B	W85-06511	1812	2F	W85-06595	1812	2C	W85-06679	1812	2D
W85-06428	1812	2B	W85-06512	1812	2E	W85-06596	1812	8E	W85-06680	1812	2G
W85-06429	1812	6B	W85-06513	1812	5B	W85-06597	1812	8B	W85-06681	1812	2D
W85-06430	1812	5D	W85-06514	1812	2E	W85-06598	1812	5F	W85-06682	1812	8B
W85-06431	1812	5A	W85-06515	1812	2G	W85-06599	1812	5C	W85-06683	1812	8B
W85-06432	1812	5B	W85-06516	1812	2F	W85-06600	1812	5B	W85-06684	1812	2E
W85-06433	1812	2B	W85-06517	1812	2J	W85-06601	1812	5A	W85-06685	1812	2G
W85-06434	1812	2E	W85-06518	1812	2H	W85-06602	1812	5D	W85-06686	1812	2G
W85-06435	1812	7B	W85-06519	1812	2L	W85-06603	1812	5F	W85-06687	1812	6D
W85-06436	1812	5C	W85-06520	1812	2E	W85-06604	1812	3F	W85-06688	1812	3F
W85-06437	1812	5C	W85-06521	1812	5C	W85-06605	1812	6A	W85-06689	1812	3F
W85-06438	1812	5A	W85-06522	1812	5C	W85-06606	1812	4C	W85-06690	1812	3A
W85-06439	1812	5C	W85-06523	1812	2I	W85-06607	1812	5G	W85-06691	1812	3A
W85-06440	1812	5A	W85-06524	1812	2J	W85-06608	1812	5E	W85-06692	1812	3F
W85-06441	1812	2L	W85-06525	1812	5A	W85-06609	1812	5D	W85-06693	1812	3A
W85-06442	1812	2H	W85-06526	1812	5A	W85-06610	1812	5G	W85-06694	1812	3A
W85-06443	1812	2H	W85-06527	1812	5F	W85-06611	1812	5B	W85-06695	1812	2A
W85-06444	1812	2H	W85-06528	1812	6E	W85-06612	1812	5D	W85-06696	1812	5B
W85-06445	1812	2H	W85-06529	1812	6E	W85-06613	1812	5D	W85-06697	1812	6B
W85-06446	1812	2H	W85-06530	1812	5G	W85-06614	1812	5B	W85-06698	1812	2H
W85-06447	1812	2L	W85-06531	1812	6E	W85-06615	1812	3C	W85-06699	1812	2J
W85-06448	1812	5C	W85-06532	1812	6E	W85-06616	1812	3C	W85-06700	1812	2F
W85-06449	1812	2H	W85-06533	1812	6E	W85-06617	1812	5D	W85-06701	1812	2J
W85-06450	1812	2D	W85-06534	1812	5G	W85-06618	1812	5C	W85-06702	1812	2G
W85-06451	1812	5B	W85-06535	1812	6A	W85-06619	1812	5C	W85-06703	1812	5F
W85-06452	1812	5G	W85-06536	1812	4A	W85-06620	1812	6G	W85-06704	1812	5B
W85-06453	1812	5G	W85-06537	1812	6E	W85-06621	1812	5B	W85-06705	1812	2F
W85-06454	1812	5A	W85-06538	1812	2G	W85-06622	1812	5D	W85-06706	1812	8C
W85-06455	1812	2E	W85-06539	1812	2G	W85-06623	1812	5D	W85-06707	1812	8A
W85-06456	1812	2L	W85-06540	1812	3F	W85-06624	1812	5B	W85-06708	1812	8C
W85-06457	1812	2H	W85-06541	1812	4D	W85-06625	1812	2H	W85-06709	1812	8B
W85-06458	1812	2H	W85-06542	1812	4A	W85-06626	1812	5B	W85-06710	1812	6G
W85-06459	1812	2H	W85-06543	1812	4D	W85-06627	1812	6D	W85-06711	1812	8B
W85-06460	1812	2H	W85-06544	1812	4D	W85-06628	1812	5B	W85-06712	1812	5D
W85-06461	1812	5C	W85-06545	1812	5F	W85-06629	1812	5G	W85-06713	1812	5G
W85-06462	1812	5G	W85-06546	1812	6D	W85-06630	1812	4C	W85-06714	1812	5B
W85-06463	1812	5A	W85-06547	1812	2J	W85-06631	1812	6G	W85-06715	1812	5E
W85-06464	1812	2L	W85-06548	1812	5C	W85-06632	1812	6G	W85-06716	1812	2J
W85-06465	1812	2H	W85-06549	1812	5B	W85-06633	1812	6G	W85-06717	1812	2G
W85-06466	1812	2H	W85-06550	1812	5C	W85-06634	1812	5B	W85-06718	1812	5B
W85-06467	1812	2H	W85-06551	1812	2C	W85-06635	1812	5B	W85-06719	1812	5B
W85-06468	1812	6G	W85-06552	1812	8B	W85-06636	1812	2C	W85-06720	1812	5B

## ACCESSION NUMBER INDEX

W85-07056

W85-06721	1812	2K	W85-06805	1812	7B	W85-06889	1812	5C	W85-06973	1812	6G
W85-06722	1812	5E	W85-06806	1812	2J	W85-06890	1812	5C	W85-06974	1812	5G
W85-06723	1812	5B	W85-06807	1812	2J	W85-06891	1812	4A	W85-06975	1812	5G
W85-06724	1812	5B	W85-06808	1812	5B	W85-06892	1812	8B	W85-06976	1812	5B
W85-06725	1812	5C	W85-06809	1812	2K	W85-06893	1812	8C	W85-06977	1812	9A
W85-06726	1812	5E	W85-06810	1812	5F	W85-06894	1812	2F	W85-06978	1812	5D
W85-06727	1812	5C	W85-06811	1812	4A	W85-06895	1812	2L	W85-06979	1812	4D
W85-06728	1812	2K	W85-06812	1812	5D	W85-06896	1812	8B	W85-06980	1812	5C
W85-06729	1812	5C	W85-06813	1812	5F	W85-06897	1812	6G	W85-06981	1812	5B
W85-06730	1812	2K	W85-06814	1812	5B	W85-06898	1812	4A	W85-06982	1812	5D
W85-06731	1812	5D	W85-06815	1812	5C	W85-06899	1812	6G	W85-06983	1812	5D
W85-06732	1812	5B	W85-06816	1812	3D	W85-06900	1812	4A	W85-06984	1812	6G
W85-06733	1812	5B	W85-06817	1812	5D	W85-06901	1812	4A	W85-06985	1812	8A
W85-06734	1812	7B	W85-06818	1812	6E	W85-06902	1812	6G	W85-06986	1812	8F
W85-06735	1812	5D	W85-06819	1812	2F	W85-06903	1812	2H	W85-06987	1812	5B
W85-06736	1812	5D	W85-06820	1812	5B	W85-06904	1812	4A	W85-06988	1812	8C
W85-06737	1812	5A	W85-06821	1812	2F	W85-06905	1812	8D	W85-06989	1812	5B
W85-06738	1812	5A	W85-06822	1812	2F	W85-06906	1812	6D	W85-06990	1812	5G
W85-06739	1812	2L	W85-06823	1812	2F	W85-06907	1812	2H	W85-06991	1812	5E
W85-06740	1812	5B	W85-06824	1812	2F	W85-06908	1812	5B	W85-06992	1812	5E
W85-06741	1812	5C	W85-06825	1812	5B	W85-06909	1812	2H	W85-06993	1812	6G
W85-06742	1812	5C	W85-06826	1812	2F	W85-06910	1812	8C	W85-06994	1812	8B
W85-06743	1812	5C	W85-06827	1812	2F	W85-06911	1812	2L	W85-06995	1812	2A
W85-06744	1812	5C	W85-06828	1812	2F	W85-06912	1812	2E	W85-06996	1812	2J
W85-06745	1812	5C	W85-06829	1812	5B	W85-06913	1812	8D	W85-06997	1812	4A
W85-06746	1812	2G	W85-06830	1812	7A	W85-06914	1812	5D	W85-06998	1812	4A
W85-06747	1812	2G	W85-06831	1812	5B	W85-06915	1812	5A	W85-06999	1812	5G
W85-06748	1812	5E	W85-06832	1812	5B	W85-06916	1812	5F	W85-07000	1812	6A
W85-06749	1812	2G	W85-06833	1812	5G	W85-06917	1812	4A	W85-07001	1812	5D
W85-06750	1812	3F	W85-06834	1812	2F	W85-06918	1812	2J	W85-07002	1812	5D
W85-06751	1812	2G	W85-06835	1812	5F	W85-06919	1812	5A	W85-07003	1812	5D
W85-06752	1812	3B	W85-06836	1812	4A	W85-06920	1812	8B	W85-07004	1812	5D
W85-06753	1812	3B	W85-06837	1812	5D	W85-06921	1812	8B	W85-07005	1812	5D
W85-06754	1812	5A	W85-06838	1812	5G	W85-06922	1812	4A	W85-07006	1812	5D
W85-06755	1812	5A	W85-06839	1812	5B	W85-06923	1812	8B	W85-07007	1812	5D
W85-06756	1812	2K	W85-06840	1812	5D	W85-06924	1812	7C	W85-07008	1812	5D
W85-06757	1812	5A	W85-06841	1812	4B	W85-06925	1812	2B	W85-07009	1812	5D
W85-06758	1812	5A	W85-06842	1812	5D	W85-06926	1812	5D	W85-07010	1812	5D
W85-06759	1812	5A	W85-06843	1812	2C	W85-06927	1812	8B	W85-07011	1812	5D
W85-06760	1812	5A	W85-06844	1812	2H	W85-06928	1812	6G	W85-07012	1812	5D
W85-06761	1812	5A	W85-06845	1812	5G	W85-06929	1812	2J	W85-07013	1812	5D
W85-06762	1812	5A	W85-06846	1812	2H	W85-06930	1812	5F	W85-07014	1812	5D
W85-06763	1812	5A	W85-06847	1812	6G	W85-06931	1812	2A	W85-07015	1812	5D
W85-06764	1812	5A	W85-06848	1812	6G	W85-06932	1812	5D	W85-07016	1812	5D
W85-06765	1812	5B	W85-06849	1812	2H	W85-06933	1812	6E	W85-07017	1812	5D
W85-06766	1812	5B	W85-06850	1812	7B	W85-06934	1812	5G	W85-07018	1812	5D
W85-06767	1812	2A	W85-06851	1812	2L	W85-06935	1812	5A	W85-07019	1812	5D
W85-06768	1812	5B	W85-06852	1812	2L	W85-06936	1812	4C	W85-07020	1812	5D
W85-06769	1812	5B	W85-06853	1812	2L	W85-06937	1812	5G	W85-07021	1812	5D
W85-06770	1812	5B	W85-06854	1812	5B	W85-06938	1812	4A	W85-07022	1812	5D
W85-06771	1812	5B	W85-06855	1812	2L	W85-06939	1812	2H	W85-07023	1812	5D
W85-06772	1812	5C	W85-06856	1812	2H	W85-06940	1812	6E	W85-07024	1812	2K
W85-06773	1812	5B	W85-06857	1812	2H	W85-06941	1812	5D	W85-07025	1812	5B
W85-06774	1812	5B	W85-06858	1812	2I	W85-06942	1812	5A	W85-07026	1812	2H
W85-06775	1812	5B	W85-06859	1812	5C	W85-06943	1812	8I	W85-07027	1812	5A
W85-06776	1812	5B	W85-06860	1812	2H	W85-06944	1812	6B	W85-07028	1812	2H
W85-06777	1812	5B	W85-06861	1812	2J	W85-06945	1812	2L	W85-07029	1812	8B
W85-06778	1812	5B	W85-06862	1812	5C	W85-06946	1812	6C	W85-07030	1812	8B
W85-06779	1812	5A	W85-06863	1812	5B	W85-06947	1812	6C	W85-07031	1812	2J
W85-06780	1812	5E	W85-06864	1812	2L	W85-06948	1812	6C	W85-07032	1812	5B
W85-06781	1812	5D	W85-06865	1812	5B	W85-06949	1812	6C	W85-07033	1812	2J
W85-06782	1812	5D	W85-06866	1812	5A	W85-06950	1812	6C	W85-07034	1812	5C
W85-06783	1812	5B	W85-06867	1812	5A	W85-06951	1812	6C	W85-07035	1812	2F
W85-06784	1812	5B	W85-06868	1812	2H	W85-06952	1812	6C	W85-07036	1812	2K
W85-06785	1812	2H	W85-06869	1812	2H	W85-06953	1812	6C	W85-07037	1812	2A
W85-06786	1812	2H	W85-06870	1812	6G	W85-06954	1812	6C	W85-07038	1812	6E
W85-06787	1812	7B	W85-06871	1812	2H	W85-06955	1812	7B	W85-07039	1812	5E
W85-06788	1812	5C	W85-06872	1812	2K	W85-06956	1812	6G	W85-07040	1812	5E
W85-06789	1812	2H	W85-06873	1812	5A	W85-06957	1812	2L	W85-07041	1812	5D
W85-06790	1812	5C	W85-06874	1812	5B	W85-06958	1812	2D	W85-07042	1812	5D
W85-06791	1812	2H	W85-06875	1812	5B	W85-06959	1812	2L	W85-07043	1812	5D
W85-06792	1812	2H	W85-06876	1812	2L	W85-06960	1812	5C	W85-07044	1812	5D
W85-06793	1812	2H	W85-06877	1812	2L	W85-06961	1812	8A	W85-07045	1812	5E
W85-06794	1812	2H	W85-06878	1812	5A	W85-06962	1812	8A	W85-07046	1812	5A
W85-06795	1812	2H	W85-06879	1812	5C	W85-06963	1812	5D	W85-07047	1812	5D
W85-06796	1812	5B	W85-06880	1812	5C	W85-06964	1812	2H	W85-07048	1812	5A
W85-06797	1812	2H	W85-06881	1812	2H	W85-06965	1812	6G	W85-07049	1812	5E
W85-06798	1812	2L	W85-06882	1812	2H	W85-06966	1812	8E	W85-07050	1812	5D
W85-06799	1812	2H	W85-06883	1812	2H	W85-06967	1812	2J	W85-07051	1812	5D
W85-06800	1812	2K	W85-06884	1812	5B	W85-06968	1812	6G	W85-07052	1812	5D
W85-06801	1812	5B	W85-06885	1812	2L	W85-06969	1812	6G	W85-07053	1812	5D
W85-06802	1812	2F	W85-06886	1812	4B	W85-06970	1812	5C	W85-07054	1812	5D
W85-06803	1812	5C	W85-06887	1812	5C	W85-06971	1812	5C	W85-07055	1812	5B
W85-06804	1812	2H	W85-06888	1812	5B	W85-06972	1812	5G	W85-07056	1812	5F

ACCESSION NUMBER INDEX

**W85-07057**

W85-07057	1812	5F	W85-07141	1812	2B
W85-07058	1812	5F	W85-07142	1812	2H
W85-07059	1812	5F	W85-07143	1812	5A
W85-07060	1812	5F	W85-07144	1812	5D
W85-07061	1812	5F	W85-07145	1812	4C
W85-07062	1812	6A	W85-07146	1812	5B
W85-07063	1812	5F	W85-07147	1812	2H
W85-07064	1812	5F	W85-07148	1812	5B
W85-07065	1812	5A	W85-07149	1812	5B
W85-07066	1812	2B	W85-07150	1812	5A
W85-07067	1812	2B	W85-07151	1812	5C
W85-07068	1812	2B	W85-07152	1812	5G
W85-07069	1812	2H	W85-07153	1812	5C
W85-07070	1812	2H	W85-07154	1812	5C
W85-07071	1812	2H	W85-07155	1812	5C
W85-07072	1812	2H	W85-07156	1812	5C
W85-07073	1812	2L	W85-07157	1812	5C
W85-07074	1812	5E	W85-07158	1812	5C
W85-07075	1812	2B	W85-07159	1812	5A
W85-07076	1812	2B	W85-07160	1812	5C
W85-07077	1812	2A	W85-07161	1812	5B
W85-07078	1812	6G	W85-07162	1812	5A
W85-07079	1812	8B	W85-07163	1812	5A
W85-07080	1812	2J	W85-07164	1812	5A
W85-07081	1812	8A			
W85-07082	1812	2J			
W85-07083	1812	5B			
W85-07084	1812	5B			
W85-07085	1812	2H			
W85-07086	1812	5E			
W85-07087	1812	5C			
W85-07088	1812	5A			
W85-07089	1812	5G			
W85-07090	1812	5B			
W85-07091	1812	5D			
W85-07092	1812	3A			
W85-07093	1812	3A			
W85-07094	1812	3A			
W85-07095	1812	5D			
W85-07096	1812	3A			
W85-07097	1812	5E			
W85-07098	1812	7A			
W85-07099	1812	2E			
W85-07100	1812	8B			
W85-07101	1812	2E			
W85-07102	1812	8A			
W85-07103	1812	8D			
W85-07104	1812	8D			
W85-07105	1812	5C			
W85-07106	1812	5A			
W85-07107	1812	5E			
W85-07108	1812	5D			
W85-07109	1812	5D			
W85-07110	1812	5D			
W85-07111	1812	6G			
W85-07112	1812	5A			
W85-07113	1812	5A			
W85-07114	1812	5B			
W85-07115	1812	5D			
W85-07116	1812	5D			
W85-07117	1812	5F			
W85-07118	1812	5D			
W85-07119	1812	5A			
W85-07120	1812	5A			
W85-07121	1812	5D			
W85-07122	1812	5C			
W85-07123	1812	5C			
W85-07124	1812	5D			
W85-07125	1812	5D			
W85-07126	1812	5A			
W85-07127	1812	5B			
W85-07128	1812	5B			
W85-07129	1812	5A			
W85-07130	1812	5A			
W85-07131	1812	5A			
W85-07132	1812	5C			
W85-07133	1812	5A			
W85-07134	1812	5C			
W85-07135	1812	5A			
W85-07136	1812	2H			
W85-07137	1812	2H			
W85-07138	1812	2H			
W85-07139	1812	2H			
W85-07140	1812	2I			

